Form 3160-3
(August 1999)

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: **UTU-78433**

6. If Indian, Allottee or Tribe Name: **N/A**

7. If Unit or CA Agreement, Name and No.: **N/A**

8. Lease Name and Well No.: **Federal 23-21-9-19**

1a. Type of Work: [X] DRILL [ ] REENTER

b. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other [X] Single Zone [ ] Multiple Zone

2. Name of Operator: **Pannonian Energy, Inc.**

9. API Well No.: 43-047-34199

3A. Address: **14 Inverness Dr. E., Englewood, CO 80112**

3b. Phone No. *(include area code)*: **(303) 483-0044**

10. Field and Pool, or Exploratory: **Riverbend**

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: **2139' FSL & 1991' FWL (NESW)** 4429905 N 603513 E

At proposed prod. Zone

11. Sec., T., R., M., or Blk, and Survey or Area: **Section 21-T9S-R19E**

14. Distance in miles and direction from nearest town or post office*: **Approximately 27.5 miles from Myton, Utah**

12. County or Parish: **Uintah**

13. State: **UT**

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): **1991'**

16. No. of Acres in lease: **996.37**

17. Spacing Unit dedicated to this well: **40**

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: **See Map C**

19. Proposed Depth: **9012'**

20. BLM/BIA Bond No. on file: **Utah BLM Bond No. 4127759**

21. Elevations (Show whether DF, KDB, RT, GL, etc.): **4740' GL**

22. Approximate date work will start*: **Upon Approval**

23. Estimated duration: **18 days**

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature: Howard A Sharpe — Name *(Printed/Typed)*: **Howard Sharpe** — Date: 7-5-01

Title: **Vice President**

Approved by *(Signature)*: Bradley G. Hill — Name *(Printed/Typed)*: **BRADLEY G. HILL** — Date: 08-06-01

Title: Off **RECLAMATION SPECIALIST III**

Federal Approval of this Action is Necessary

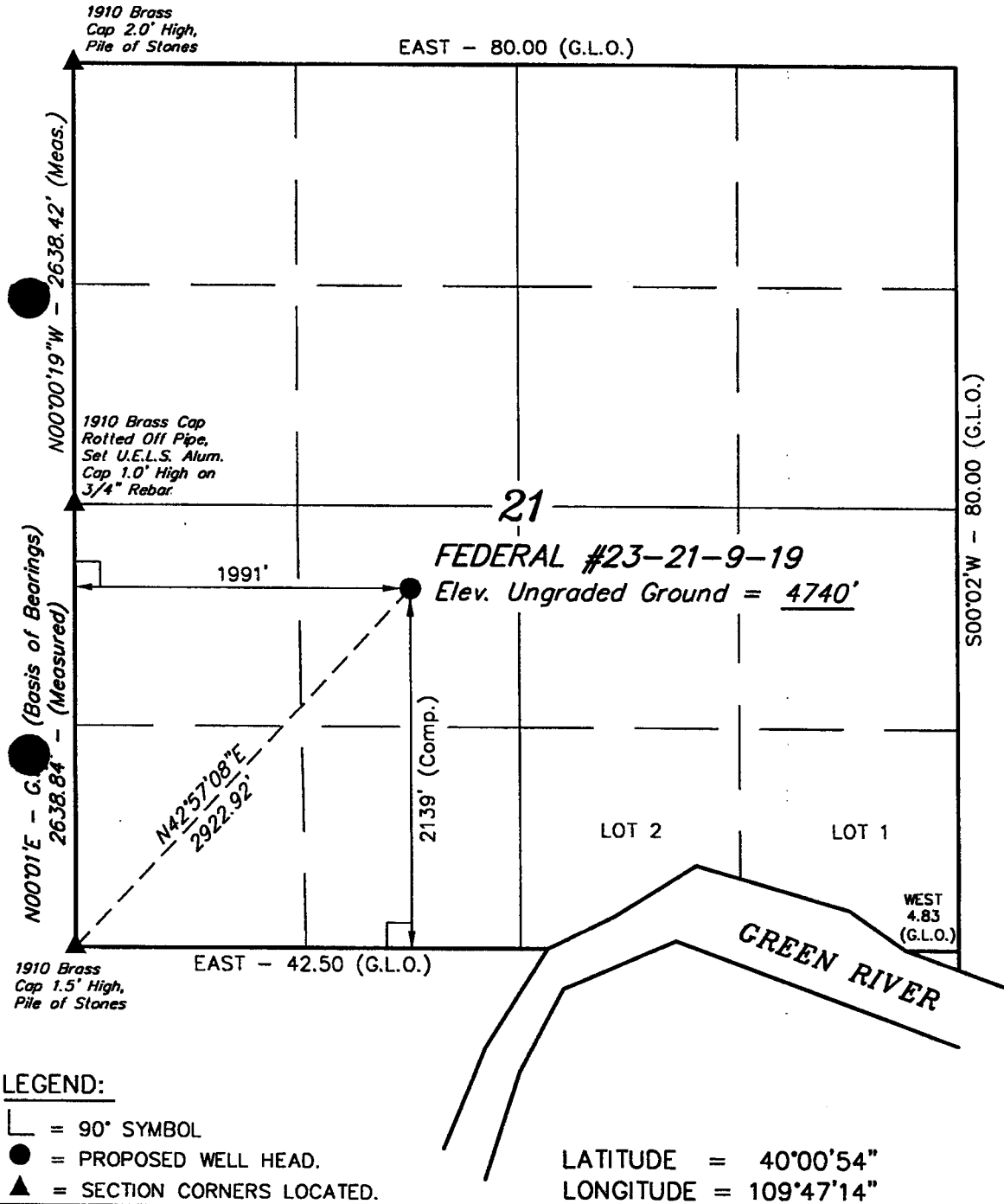
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**(Instructions on reverse)*

T9S, R19E, S.L.B.&M.

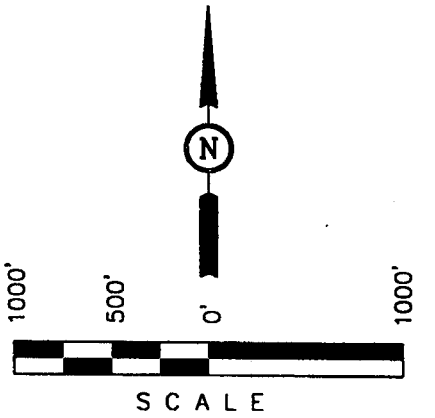


PANNONIAN ENERGY, INC.

Well location, FEDERAL #23-21-9-19, located as shown in the NE 1/4 SW 1/4 of Section 21, T9S, R19E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 21, T9S, R19E, S.L.B.&M. TAKEN FROM THE UTELAND BUTTE QUADRANGLE, UTAH, UINTAH COUNTY 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4749 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

LEGEND:

- └ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

LATITUDE = 40°00'54"
LONGITUDE = 109°47'14"

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE: 1" = 1000'	DATE SURVEYED: 5-31-01	DATE DRAWN: 6-7-01
PARTY: D.A. P.M. D.COX	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: PANNONIAN ENERGY, INC.	

PANNONIAN ENERGY, INC.

Federal 23-21-9-19
NESW, Section 21-T9S-R19E
Uintah County, Utah
Lease No. UTU-78433

DRILLING PLAN

1. *ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS & ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:*

Formation	Depth (ft)	Hydrocarbon/Water Bearing Zones
Uintah	Surface	
Green River	1812'	Gas/Oil
Wasatch	5362'	Gas
TD	9012'	

All usable (<10,000 ppm TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. All significant oil and gas shows will be tested to determine commercial potential. This information shall be reported to the Vernal BLM Office.

2. *PRESSURE CONTROL EQUIPMENT:*

All well control equipment shall be in accordance with Onshore Order #2 for 5M systems.

The minimum specifications for pressure control equipment that will be provided are included on the attached schematic diagram showing size, pressure ratings, testing procedures, and testing frequency.

5000# BOP With 4-1/2" Pipe Rams
5000# BOP With Blind Rams
5000# Annular

Auxiliary equipment to be used:

- Upper kelly cocks with handle available.

The manifold includes appropriate valves and adjustable chokes. The kill line will have one check valve. Ram type preventers will be pressure tested to full working pressure (utilizing a test plug) at:

- initial installation;
- whenever any seal subject to test pressure is broken;
- following related repairs;
- at 30 day intervals

The annular preventer will be pressure tested to 50 percent of the rated working pressure. All pressure tests shall be maintained at least ten minutes or until provisions of test are met, whichever is longer.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip.

A BOPE pit level drill will be conducted weekly for each drilling crew.

All tests and drills will be recorded in the drilling log.

The accumulator will have sufficient capacity to open the HCR valve, close all rams plus the annular preventer, and retain 200 psi above pre-charge pressure without the use of closing unit pumps. The system will have two independent power sources to close the preventers in accordance with 5M system requirements outlined in Onshore Order #2.

Remote controls shall be readily accessible to the driller. Master controls shall be at the accumulator.

3. *CASING & CEMENTING PROGRAM:*

A. The proposed casing program will be as follows:

Depth	Hole Size	Size	Grade	Weight	Thread	Condition
0-400'	12-1/4"	8-5/8"	K-55	24#	LT&C	New
0-TD	7-7/8"	4-1/2"	N-80	11.6#	LT&C	New

The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors, including: presence/absence of hydrocarbons, fracture gradients, usable water zones, formation pressures, lost circulation zones, other minerals, or other unusual characteristics.

All casing, except conductor casing, shall be new or reconditioned and tested. Used casing shall meet or exceed API standards for new casing.

The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing. If drive pipe is used, it may be left in place if its total length is less than twenty feet below the surface. If the total length of the drive pipe is equal to or greater

than twenty feet, it will be pulled prior to cementing surface casing, or it will be cemented in place.

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc., shall be utilized to help isolate the cement from contamination by the mud being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

The bottom three joints of the surface casing will have one centralizer per joint and one centralizer every fourth joint thereafter.

Casing design subject to revision based on geologic conditions encountered.

B. The proposed cementing program will be as follows:

Surface String: Cement will be circulated to surface. Estimated volume (100% over theoretical value):

290 sx Premium Plus, 2% $CaCl_2$ w/0.25 #/sx Flocele @ 15.6 ppg, 1.19 ft^3/sx.

Production String: Estimated volume (gauge hole + 15%):

Lead: 450 sx Hifill @ 11.0 ppg, 3.84 ft^3/sx.
Tail: 1364 sx 50/50 POZ @ 14.35 ppg, 1.26 ft^3/sx.

Actual volumes will be calculated and adjusted with caliper log prior to cementing. Ten percent excess will be pumped.

For surface casing, waiting on cement time will be adequate to achieve 500 psi compressive strength at the casing shoe prior to drilling out.

Anticipated cement tops will be reported as to depth, not the expected number of sacks of cement to be used. The Vernal District BLM Office will be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

After cementing the surface pipe and/or any intermediate strings, but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the Driller's Log.

4. DRILLING FLUIDS PROGRAM:

Interval	Type	Weight (ppg)	Viscosity	pH	Water Loss	Remarks
0-400'	Spud	8.4 -9.0	30-45+	8.0	NC	Gel & lime as required.
400'-Top of Wasatch	Wtr/gel	8.4-8.8	27-35	8.5-9.0	NC	Min. Wt.
Top of Wasatch-TD	KCL Mud	8.5-8.8*	35-45	9.0-11.0	10-15cc @ TD	* Min Wt. to control formation pressure.

NC = no control

Sufficient quantities of mud material will be maintained on site or be readily accessible for the purpose of assuring well control. SPR will be recorded on daily drilling report after mudding up. Visual mud monitoring will be conducted during operations.

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

5. EVALUATION PROGRAM:

Logs: DLLT/GR: TD to base surface casing
SDL/DSN/GR/CAL: TD to 300' above Green River
MRIL: TD to 100' above Wasatch
(at operators discretion)

Cores: None anticipated.

DST's: None anticipated.

When cement has not been circulated to surface, the cement top will be determined by either a temperature survey or cement bond log. Should a temperature survey fail to locate the cement top, a cement bond log will be run. A field copy will be submitted to the Vernal BLM office.

Drill stem tests, if they are run, will adhere to the following requirements:

> Initial opening of the drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the Authorized Officer. However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor-proof for safe operations). Packers can

be released, but tripping shall not begin before daylight, unless prior approval is obtained from the Authorized Officer. Closed chamber DST's may be performed day or night.

Some means of reverse circulation shall be provided in case of flow to the surface showing evidence of hydrocarbons.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to be operational during the test shall have spark arresters or water-cooled exhausts.

6. *ABNORMAL CONDITIONS:*

No anticipated abnormal pressures or temperatures are expected to be encountered. No hydrogen sulfide is expected.

Anticipated bottom-hole pressure is 3902 psi.

7. *OTHER INFORMATION:*

The anticipated starting date and duration of the operation will be as follows:

Starting Date:	Upon Approval
Duration:	11 Drilling Days & 7 Completion Days

If the well is completed as a dry hole or as a producer, Well Completion or Recompletion Report and Log (Form 3160-4) will be submitted within 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3160. Copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample descriptions, daily drilling reports, daily completion reports, and all other surveys or data obtained and compiled during the drilling, completion, and/or workover operations, will be submitted directly to the Authorized Officer or filed with Form 3160-4.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

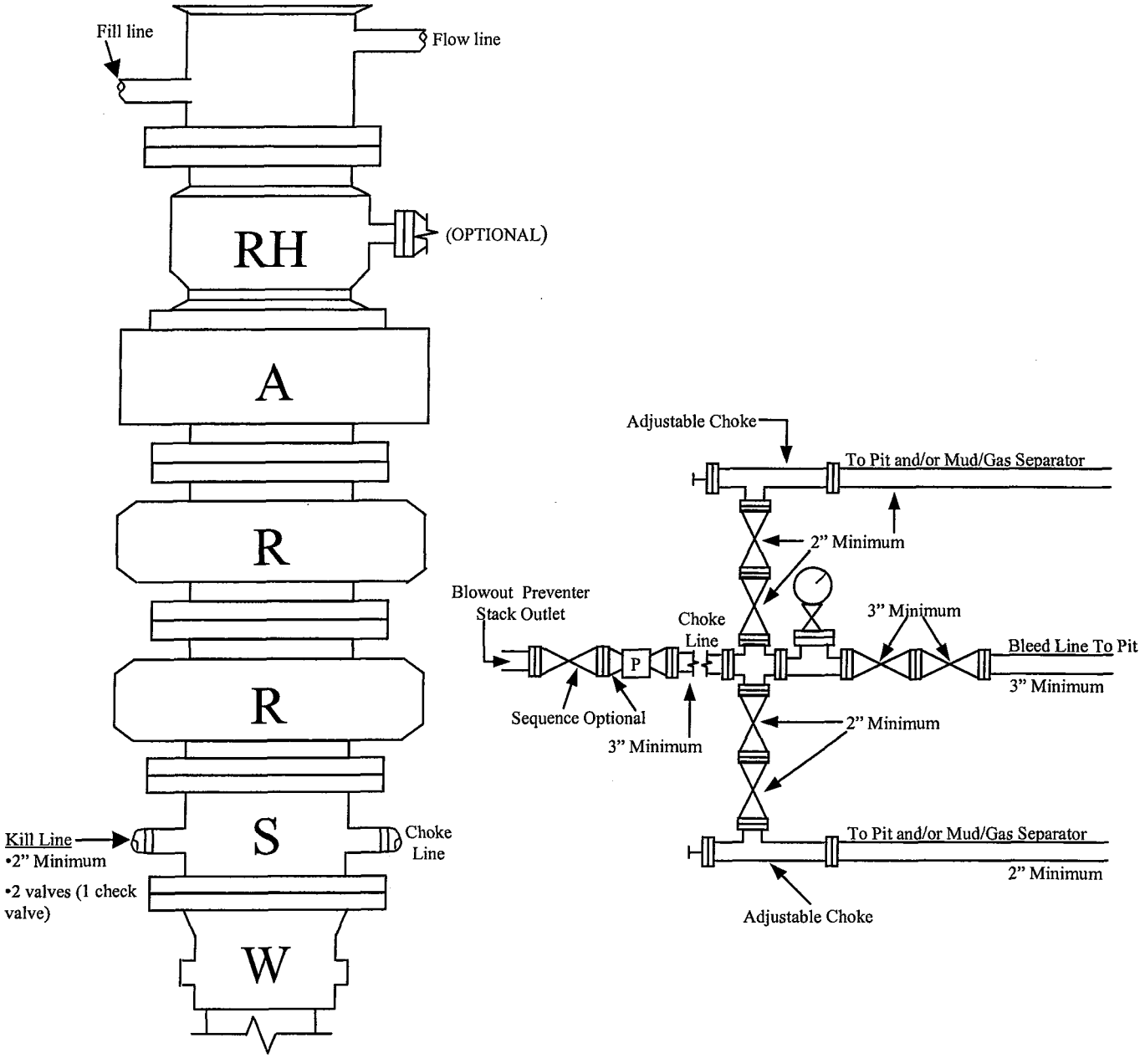
Deviations from the proposed drilling and/or workover program will be approved by the Authorized Officer. Safe drilling and operating practices will be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders No. 1 and No. 2, and the approved Plan of Operations. The Operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

DOUBLE RAM TYPE PREVENTERS WITH AN OPTIONAL ROTATING HEAD

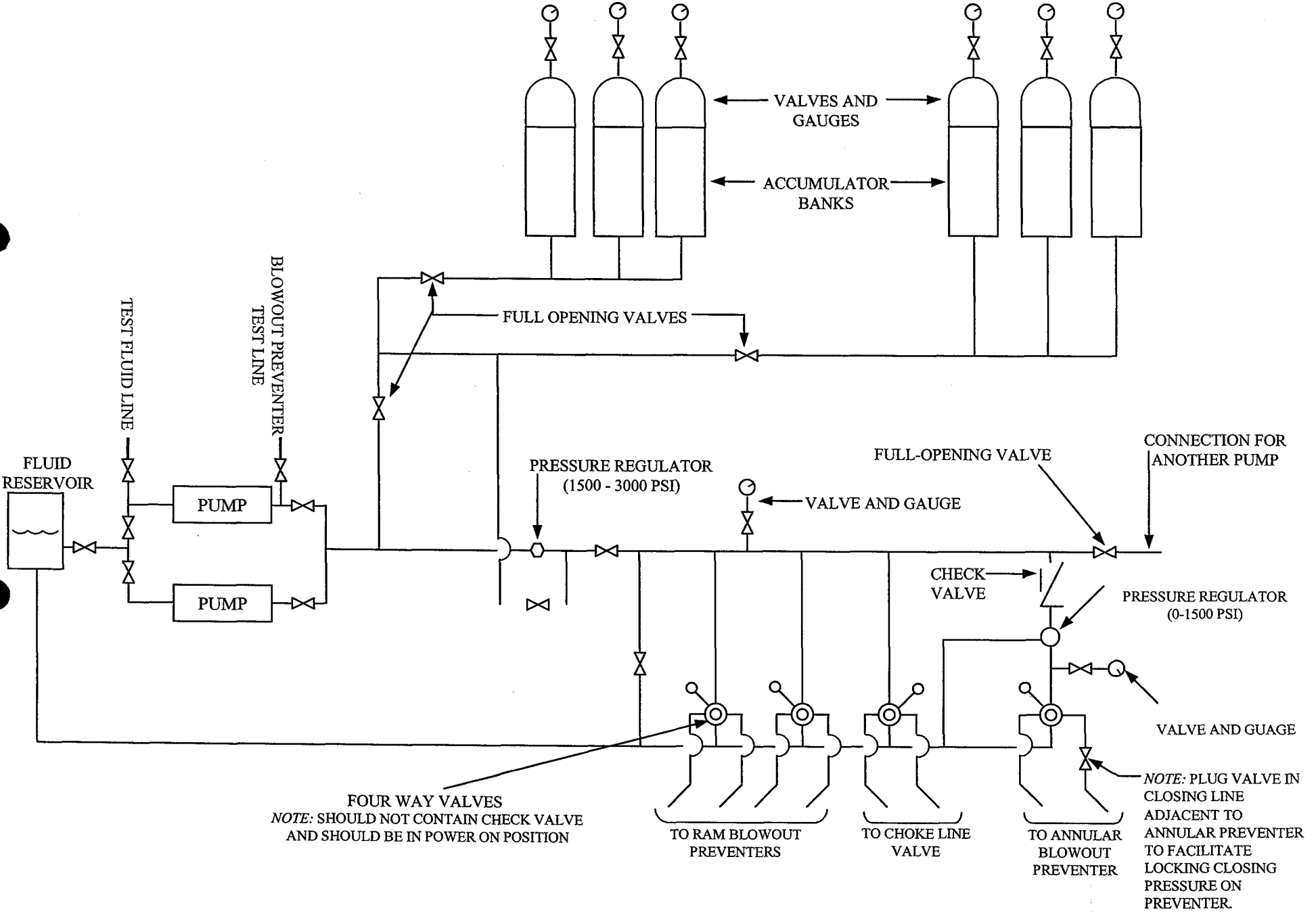
5000 psi system



* Note: Kill line shall be 2" minimum diameter and have two valves, one of which shall be a check valve. Both valves: 2" minimum.

Minimum BOP Stack	5000 psi Working Pressure
One Pipe Ram	5000 psi Working Pressure
One Blind Ram	5000 psi Working Pressure
One Annular	5000 psi Working Pressure
Well Head	5000 psi Working Pressure
Manifold	5000 psi Working Pressure

TYPICAL BLOWOUT PREVENTER CLOSING UNIT ARRANGEMENT



PANNONIAN ENERGY, INC.

Federal 23-21-9-19
NESW, Section 21-T9S-R19E
Uintah County, Utah
Lease No. UTU-78433

SURFACE USE PLAN

An onsite inspection for the subject well was conducted on June 26, 2001. Weather conditions at the time of the onsite inspection were overcast and windy. In attendance were the following individuals:

Stan Olmstead – Bureau of Land Management
Robert Kay – Uintah Engineering & Land Surveying
Robin Dean – Pannonian Energy, Inc.
Kelly Olds – Halliburton Integrated Solutions
Sheila Bremer – Halliburton Integrated Solutions

1. EXISTING ROADS:

Refer to Topo Maps A and B for location of existing access roads.

See Topo Map A for directions to the proposed location from Myton, Utah.

The existing roads will be maintained and kept in good repair.

2. ACCESS ROADS TO BE CONSTRUCTED:

Approximately 1.0 mile of new road will be required to access the proposed location.

The proposed access road was centerline staked.

The new road will be completed as a single lane 18-foot subgrade road with natural low water crossings (see Topo Map B).

Maximum grade will be less than eight percent.

There are no major cuts or fills, turnouts, or bridges anticipated along the proposed access route.

No gates, cattleguards, fence cuts, or modifications to existing facilities will be required on or along the proposed access route.

The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route.

Construction activity will not be conducted using frozen or saturated soils material or during periods when watershed damage is likely to occur.

The access road and associated drainage structures will be constructed and maintained in accordance with roading guidelines contained in the joint BLM/USFS publication: *Surface Operating Standards for Oil and Gas Exploration and Development*, Third Edition, and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction. During the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and drainage ditches and culverts will be kept clear and free flowing.

If the access road is dry during construction, drilling, and completion activities, water will be applied to the access road to help facilitate road compaction (during construction) and to minimize soil loss as a result of wind erosion.

3. *Location of Existing Wells Within a One-Mile Radius:*

See Topo Map C.

Water wells – 0
Abandoned wells – 0
Temporarily Abandoned wells – 0
Disposal wells – 0
Drilling/Proposed wells – 0
Producing wells – 2
Shut-in wells – 0
Injection wells – 0
Monitoring wells - 0

4. *Location of Existing and/or Proposed Production Facilities:*

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope.

Containment berms will be constructed completely around production facilities designed to hold fluids (i.e., production tanks, produced water tanks, and/or heater/treater). The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 110 percent of the capacity of the largest tank, and be independent of the back cut.

All loading lines will be placed inside the berm surrounding the tank battery.

All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted Carlsbad Canyon (Munsell standard color 2.5y 6/2).

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flow line will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be

conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The Authorized Officer will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal Field Office. All meter measurement facilities will conform with Onshore Oil and Gas Order No. 4 for liquid hydrocarbons and Onshore Oil and Gas Order No. 5 for natural gas measurement.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the Authorized Officer.

5. *LOCATION AND TYPE OF WATER SUPPLY:*

Water for drilling will be obtained from the Dalbo Ouray Water Facility located in Section 32-T4S-R3E, Water Use Claim #43-8496, Application #53617. No water supply well will be drilled.

The water will be transported to location via truck by an approved commercial water hauler over the access roads shown on Topo Maps A and B.

6. *SOURCE OF CONSTRUCTION MATERIALS:*

Surface and subsoil materials in the immediate area will be utilized. Any construction materials that may be required for surfacing of the drill pad and access road will be obtained from a contractor having a permitted source of materials within the general area.

The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2-3.

No construction materials will be removed from Federal lands without prior approval.

7. *METHODS OF HANDLING WASTE DISPOSAL:*

Cuttings and drilling fluids will be contained in the reserve pit.

Tanks will be used for storage of produced fluids during testing. Fracture stimulation fluids will be flowed back into the reserve pit for evaporation.

Portable, self-contained chemical toilets will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to disposal of human and solid waste will be complied with.

All garbage and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage. Upon completion of operations, or as needed, the accumulated trash will be transported to a state approved waste disposal site. No trash will be placed in the reserve pit.

Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location. Any open pits will be fenced

during drilling operations and said fencing will be maintained until such time as the pits have been backfilled.

After first production, produced wastewater will be confined to the approved pit or storage tank for a period not to exceed 90 days. During the 90 day period, in accordance with Onshore Order No. 7, an application for approval of a permanent disposal method and location will be submitted for the Authorized Officer's approval.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

Operator maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be found at the site may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/ stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous and EHS and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

8. *Ancillary Facilities:*

None anticipated.

9. *Well Site Layout:*

A. General Information:

See the attached *Location Layout* and *Typical Cross Sections* diagrams showing the proposed drill pad cross sections and cut and fills in relation to topographic features as well as access onto the pad and soil stockpiles.

See the attached *Typical Rig Layout* diagram showing the location of the reserve pit, flare pit, living facilities, and rig orientation with respect to the pad and other facilities.

If necessary, in order to divert surface runoff, a drainage ditch will be constructed around the upslope side of the well site.

All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad, and spoil and topsoil storage areas).

The fill section of the pad that supports the drilling rig and any other heavy equipment will be compacted.

B. Reserve Pit:

The reserve pit will be constructed in a way that minimizes the accumulation of surface precipitation runoff into the pit. This may be accomplished by appropriate placement of subsoil/topsoil storage areas and/or construction of berms or ditches.

The reserve pit will be fenced on three sides during drilling operations and the fourth side will be fenced after the drilling rig moves off the location. Thirty-nine (39) inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire will not be used if pipe or some type of reinforcement rod is attached to the top of the entire fence. The net wire will be no more than two inches above the ground. The barbed wire will be three inches over the net wire. Total height of the fence will be at least 42 inches. Corner posts will be cemented and/or braced in such a manner to keep the fence tight at all times. Standard steel, wood, or pipe posts will be used between the corner braces. Maximum distance between any 2 fence posts will not be greater than 16 feet. All wire will be stretched using a stretching device before it is attached to the corner posts.

Siphons, catchments, and/or absorbent pads will be installed to keep hydrocarbons produced by the drilling rig from entering the reserve pit. Hydrocarbons and contaminated pads will be disposed of in accordance with DEQ requirements.

The reserve pit will be backfilled as soon as dry after drilling and completion operations are finished. If natural evaporation of the reserve pit is not feasible, alternative methods of drying, removal of fluids, or other treatment will be developed. If fluids will be disposed of by any method other than evaporation or hauling to a DEQ approved disposal pit, prior approval from the Authorized Officer will be obtained.

If a liner is required, then the reserve pit will be lined with a synthetic liner. The reserve pit bottom and side walls shall be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, or bentonite) that could damage the liner. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place.

10. PLANS FOR RECLAMATION OF THE SURFACE:

Producing Location:

- Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.
- If a synthetic, nylon reinforced, liner is used, the excess liner will be cut off and removed and the remaining liner will be torn and perforated while backfilling the reserve pit. Alternatively, the pit will be pumped dry, the liner folded into the pit, and the pit backfilled.
- Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

- The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion, weather permitting. This will be completed by backfilling and crowning the pit to prevent water from standing.

- Seeding will be performed immediately after the location has been reclaimed and the pit has been backfilled, regardless of the time of year. The Bureau of Land Management will specify a seed mixture. Seed will be broadcast and walked in with a dozer. The topsoil stockpile will be seeded as soon as the location has been constructed with the same recommended seed mix.

Dry Hole/Abandoned Location:

- On lands administered by the BLM, abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions may include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and the re-establishment of vegetation as specified.

- All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

11. SURFACE OWNERSHIP:

Surface ownership of the proposed location is as follows:

Well Site & Access Road: Bureau of Land Management

12. OTHER INFORMATION:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice of Lessees. The operator is fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

The Operator will control noxious weeds along right-of-ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office. On BLM administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides or other pesticides or possibly hazardous chemicals.

Drilling rigs and/or equipment used during drilling operations on this location will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. If BLM authorization is obtained, such storage is only a temporary measure.

The Operator is responsible for informing all persons in the area who are associated with this project that they may be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in the archaeological report, and to the existing roadways and/or evaluated access routes. If historic or archaeological materials are uncovered during construction, the Operator is to immediately stop work that might further disturb such materials and contact the Authorized Officer. Within five working days, the Authorized Officer will inform the Operator as to:

- whether the materials appear eligible for the National Historic Register of Historic Places;
- the mitigation measures the Operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- a time frame for the Authorized Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that mitigation is appropriate.
- If the Operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Authorized Officer will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise the Operator will be responsible for mitigation costs. The Authorized Officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Officer that required mitigation has been completed, the Operator will then be allowed to resume construction.

A Class III archeological survey has been conducted by Metcalf Archeological Consultants. No significant cultural resources were found and clearance is recommended. Metcalf Archeological Consultants will submit a copy of this report to the appropriate agencies.

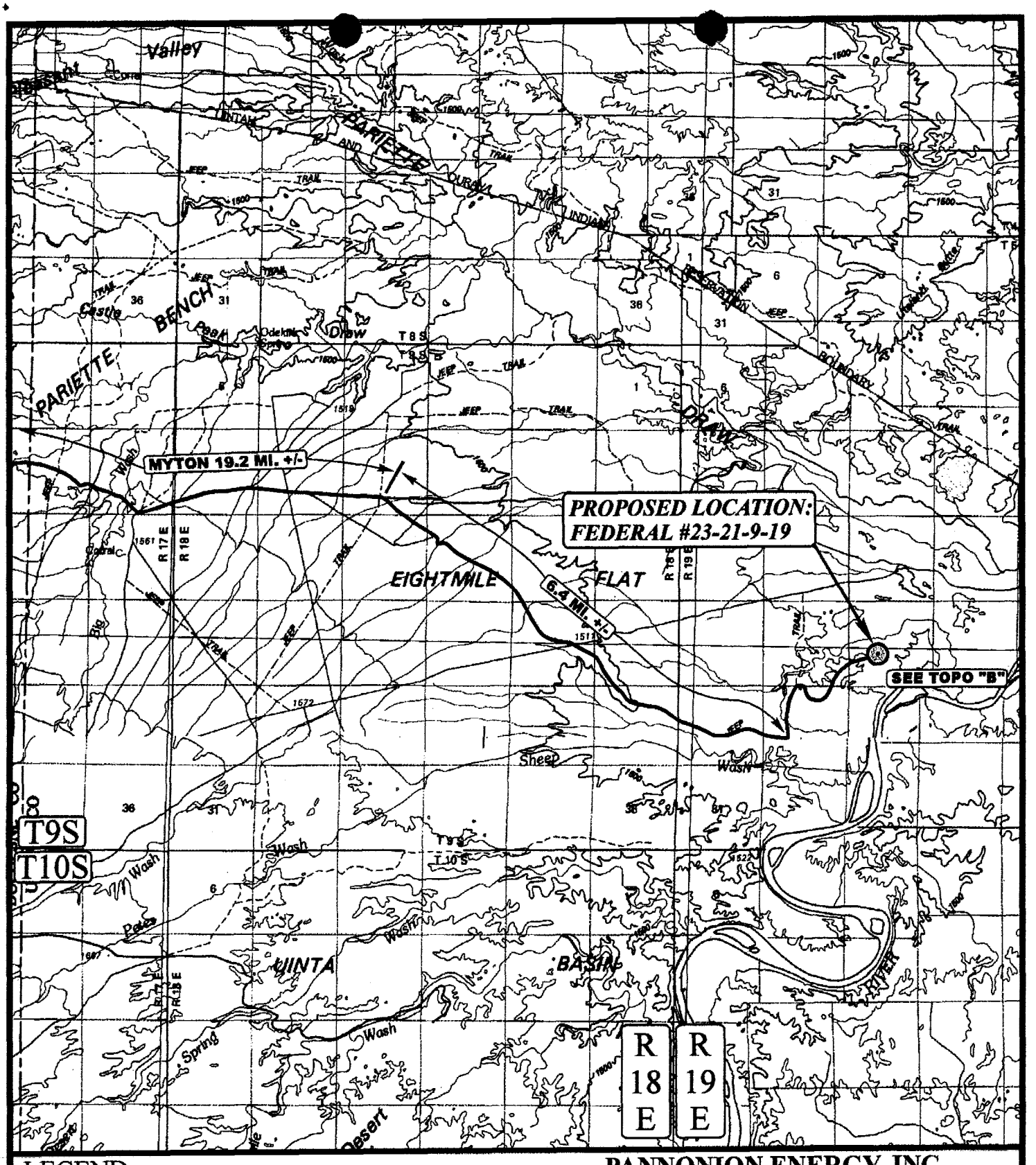
13. LESSEE OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:

Mike Decker
Pannonian Energy, Inc.
14 Inverness Drive East
Suite H-236
Englewood, Colorado 80112-5625
(303) 204-3880

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Pannonian Energy, Inc., and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

7-5-01
Date

Howard A Sharpe
Howard Sharpe, Vice President



LEGEND:

PROPOSED LOCATION

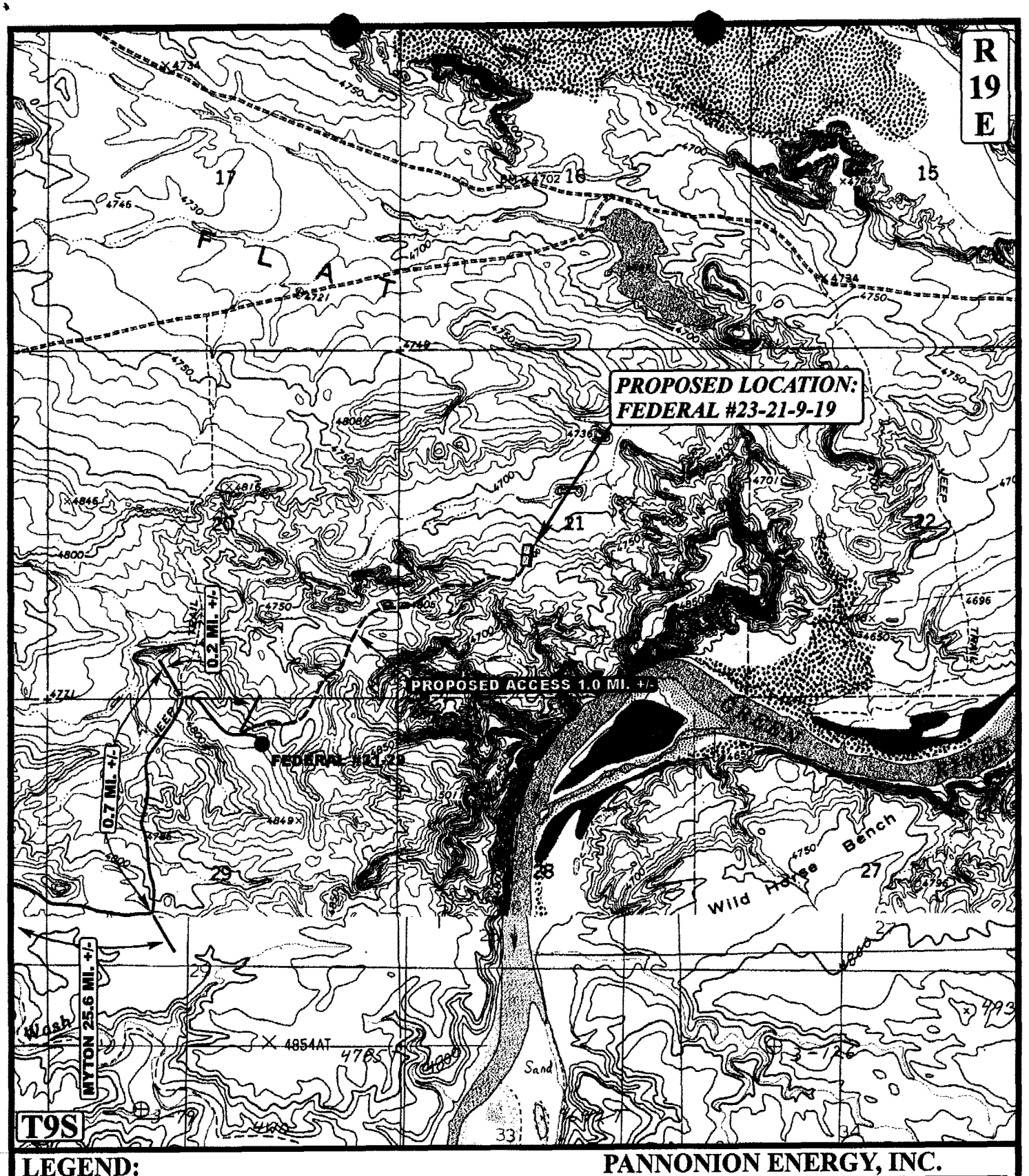
N

PANNONION ENERGY, INC.

FEDERAL #23-21-9-19
SECTION 21, T9S, R19E, S.L.B.&M.
2139' FSL 1991' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	6 MONTH	11 DAY	01 YEAR	A TOPO
SCALE: 1 : 100,000	DRAWN BY: K.G.	REVISED: 00-00-00		



LEGEND:

PROPOSED ACCESS ROAD

EXISTING ROAD

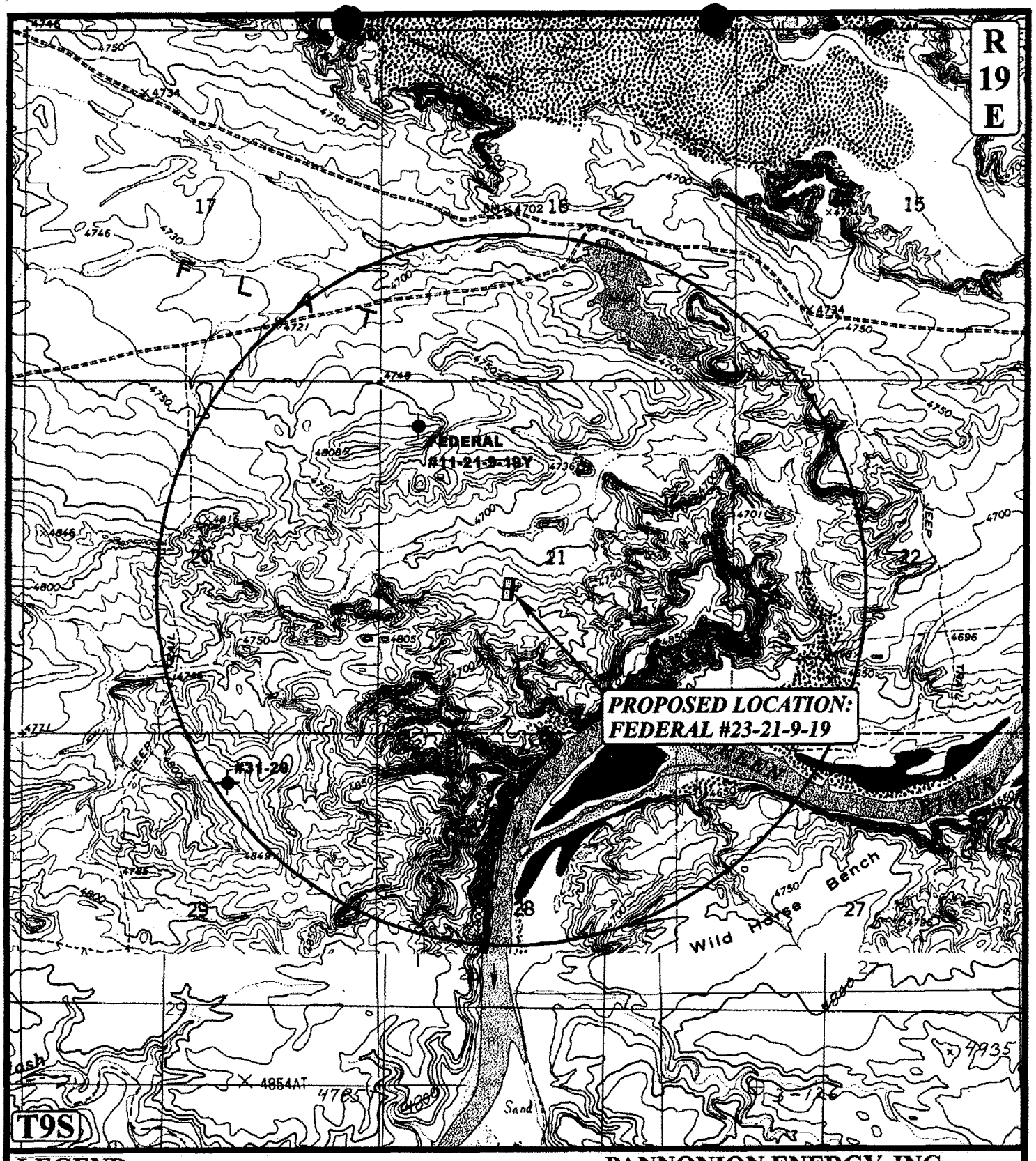
N

PANNONION ENERGY, INC.

FEDERAL #23-21-9-19
SECTION 21, T9S, R19E, S.L.B.&M.
2139' FSL 1991' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	6 MONTH	11 DAY	01 YEAR
SCALE: 1" = 2000'	DRAWN BY: K.G.	REVISED: 00-00-00	B TOPO



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

PANNONION ENERGY, INC.

FEDERAL #23-21-9-19
SECTION 21, T9S, R19E, S.L.B.&M.
2139' FSL 1991' FWL

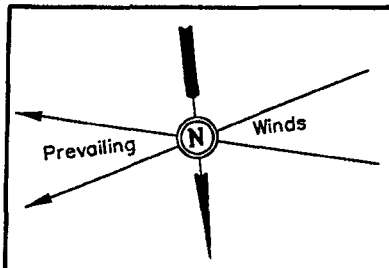
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	6 MONTH	11 DAY	01 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: K.G.	REVISED: 00-00-00		

PANNONIAN ENERGY, INC.

LOCATION LAYOUT FOR

FEDERAL #23-21-9-19
SECTION 21, T9S, R19E, S.L.B.&M.
2139' FSL 1991' FWL



SCALE: 1" = 50'
DATE: 6-7-01
DRAWN BY: D.COX
REVISED: 7-6-01

REGISTERED LAND SURVEYOR
No. 161319
TRAVIS R. KAY
STATE OF UTAH

Elev. Ungraded Ground at Location Stake = 4739.6'
Elev. Graded Ground at Location Stake = 4738.3'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

PANNONIAN ENERGY, INC.

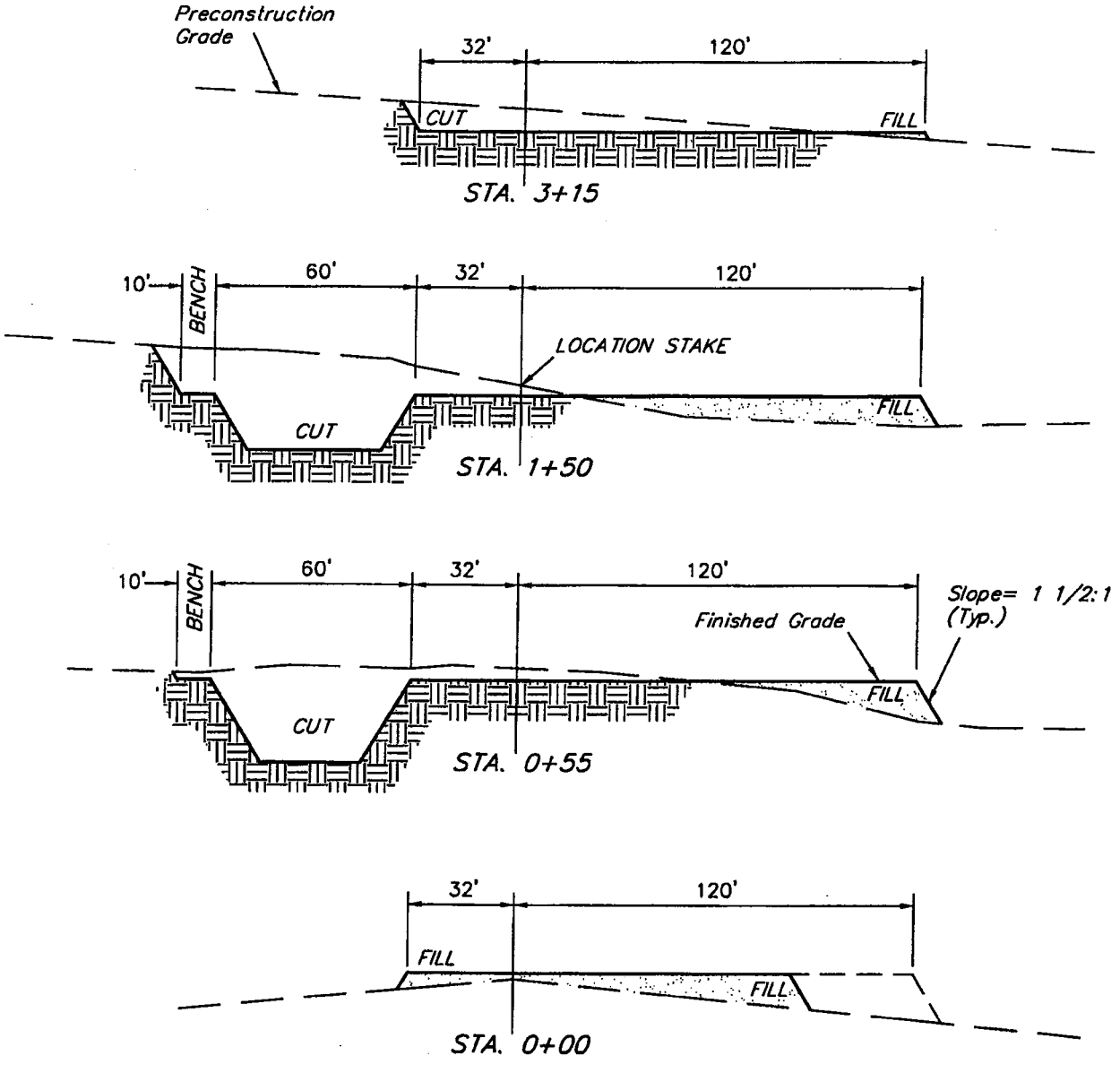
TYPICAL CROSS SECTION FOR

FEDERAL #23-21-9-19
SECTION 21, T9S, R19E, S.L.B.&M.
2139' FSL 1991' FWL

1" = 20'
X-Section Scale
1" = 50'

DATE: 6-7-01
DRAWN BY: D.COX
REVISED: 7-6-01

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
ROBERT L. KAY
STATE OF UTAH



APPROXIMATE YARDAGES

CUT		
(6") Topsoil Stripping	= 1,070	Cu. Yds.
Remaining Location	= 3,780	Cu. Yds.
TOTAL CUT	= 4,850	CU.YDS.
FILL	= 2,750	CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 1,960	Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,960	Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0	Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 07/11/2001

API NO. ASSIGNED: 43-047-34199

WELL NAME: FED 23-21-9-19

OPERATOR: PANNONIAN ENERGY INC (N1815)

CONTACT: HOWARD SHARPE

PHONE NUMBER: 303-483-0044

PROPOSED LOCATION:

NESW 21 090S 190E

SURFACE: 2139 FSL 1991 FWL

BOTTOM: 2139 FSL 1991 FWL

UINTAH

PARIETTE BENCH (640)

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-78433

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WSTC

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. 4127759)

N Potash (Y/N)

N Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 43-8496)

N RDCC Review (Y/N)
(Date:)

N/A Fee Surf Agreement (Y/N)

LOCATION AND SITING:

___ R649-2-3. Unit

✓ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells

___ R649-3-3. Exception

___ Drilling Unit
Board Cause No:
Eff Date:
Siting:

___ R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS: 1- Fed. Aprvl.
2- Spacing Stip.

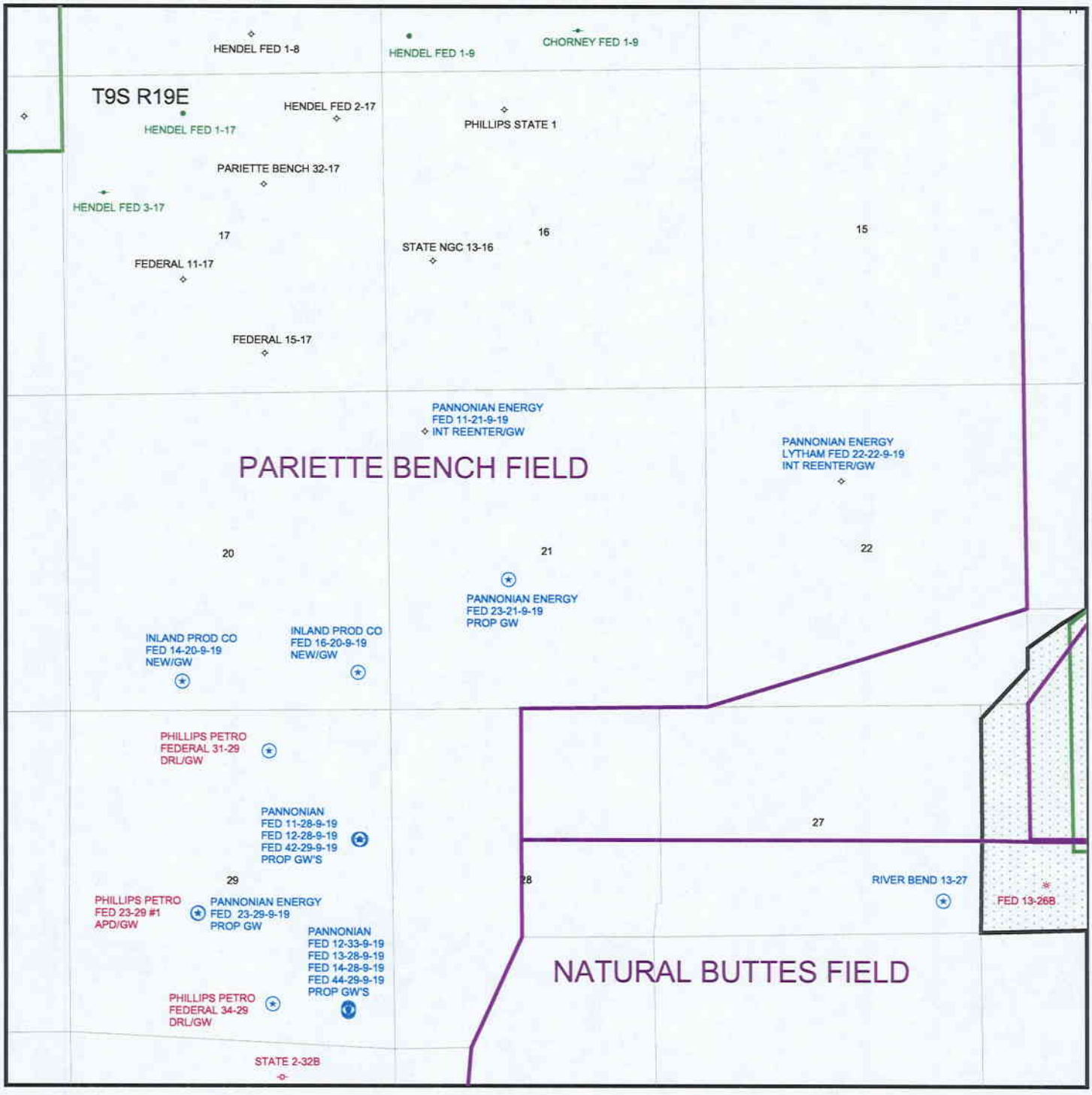
Utah Oil Gas and Mining

OPERATOR: PANNONIAN ENERGY (N1815)

SEC. 21,22 & 29, T9S, R19E

FIELD: PARIETTE BENCH (640)

COUNTY: UINTAH SPACING:



PREPARED BY: LCORDOVA
DATE: 18-JULY-2001

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

August 6, 2001

Pannonian Energy, Inc.
14 Inverness Dr. E
Englewood, CO 80112

Re: Federal 23-21-9-19 Well, 2139' FSL, 1991' FWL, NE SW, Sec. 21, T. 9 South, R. 19 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-34199.

Sincerely,

John R. Baza
Associate Director

er
Enclosures
cc: Uintah County Assessor
Bureau of Land Management, Vernal District Office

Operator: Pannonian Energy, Inc.

Well Name & Number Federal 23-21-9-19

API Number: 43-047-34199

Lease: UTU 78433

Location: NE SW **Sec.** 21 **T.** 9 South **R.** 19 East

Conditions of Approval

1. General

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

   Notify the Division within 24 hours of spudding the well.

   - Contact Carol Daniels at (801) 538-5284.

   Notify the Division prior to commencing operations to plug and abandon the well.

   - Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

NOS 6/4/01

Form 3160-3
(August 1999)

RECEIVED
OCT 31 2001

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: **UTU-78433**

6. If Indian, Allottee or Tribe Name: **N/A**

1a. Type of Work: [X] DRILL [ ] REENTER

7. If Unit or CA Agreement, Name and No.: **N/A**

b. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other [X] Single Zone [ ] Multiple Zone

8. Lease Name and Well No.: **Federal 23-21-9-19**

2. Name of Operator: **Pannonian Energy, Inc.**

9. API Well No.:

3A. Address: **14 Inverness Dr. E., Englewood, CO 80112**

3b. Phone No. *(include area code)*: **(303) 483-0044**

10. Field and Pool, or Exploratory: **Riverbend**

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: **2139' FSL & 1991' FWL (NESW)**

At proposed prod. Zone:

11. Sec., T., R., M., or Blk, and Survey or Area: **Section 21-T9S-R19E**

14. Distance in miles and direction from nearest town or post office*: **Approximately 27.5 miles from Myton, Utah**

12. County or Parish: **Uintah**

13. State: **UT**

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in lease	17. Spacing Unit dedicated to this well
1991'	**996.37**	**40**

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file
See Map C	**12,500**	**Utah BLM Bond No. 4127759**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
4740' GL	**Upon Approval**	**45 days**

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature	Name *(Printed/Typed)*	Date
Howard Sharpe	Howard Sharpe	7-5-01

Title: **Vice President**

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
Edwin I Forsman	EDWIN I FORSMAN	1/14/02

Title: ACTING Assistant Field Manager Mineral Resources

Office:

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

RECEIVED
JAN 17 2002
DIVISION OF
OIL, GAS AND MINING

DOGM

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Pannonian Energy, Inc.

Well Name & Number: Federal 23-21-9-19

API Number: 43-047-34199

Lease Number: U-78443

Location: NESW Sec. 21 T.9S R. 19E

Agreement: N/A

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

1. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to John Mayers of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

3. Casing Program and Auxiliary Equipment

In addition to the cementing proposal for the surface casing, Class G neat cement shall be placed within the surface casing-conductor annulus from the surface down to a minimum of 200'

4. Mud Program and Circulating Medium

None

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

To evaluate cement quality across the usable water zone, a Cement Bond Log will be required from the surface casing shoe to the base of the conductor pipe.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Written notification of such must be submitted to this office not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5(d) shall be submitted to the appropriate Field Office within 60 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (1).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on lease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform to Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to $10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Ed Forsman (435) 828-7874
Petroleum Engineer

Kirk Fleetwood (435) 828-7875
Petroleum Engineer

BLM FAX Machine (435) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids
Gas plant cooling tower cleaning wastes
Painting wastes
Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids
Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
Refinery wastes
Liquid and solid wastes generated by crude oil and tank bottom reclaimers
Used equipment lubrication oils
Waste compressor oil, filters, and blowdown
Used hydraulic fluids
Waste solvents
Waste in transportation pipeline-related pits
Caustic or acid cleaners
Boiler cleaning wastes
Boiler refractory bricks
Incinerator ash
Laboratory wastes
Sanitary wastes
Pesticide wastes
Radioactive tracer wastes
Drums, insulation and miscellaneous solids.

SURFACE USE PROGRAM

Conditions of Approval (COA)

Pannonian Energy, Inc. - Well No. 23-21-9-19

Location and Type of Water Supply:

Your permit to drill identified that the Dalbo Ouray Water facility would be used as the water supply for drilling. If any other water source is necessary it will require additional approval by the authorized officer of the Vernal Field Office.

Source of Construction Materials:

Only subsurface soils will be used for construction. All top soils will be stockpiled and identified in the APD for future reclamation of disturbed areas.

Plans For Reclamation of Location:

All seeding for reclamation operations at this location shall use the following seed mixture:

Gardners saltbush	Atriplex gardneri	3 lbs/acre
shadscale	Atriplex confertifolia	3 lbs/acre
mat salt bush	Atriplex corrugata	3 lbs/acre
galleta grass	Hilaria jamesii	3 lbs/acre

If the seed mixture is to be aerially broadcasted, the pounds per acre shall be doubled. All seed poundages are in Pure Live Seed.

Immediately after construction the stockpiled top soil will be seeded and the seed worked into the soil by "walking" the pile with caterpillar tracks.

Other Information:

The access road in the SESE Section 20, T9S, R19E crosses a deep drainage. This site is immediately south west of the proposed Inland Production Company well No. 16-20-9-19. If Pannonian constructs the access road before Inland Production Company, Pannonian would be required to install a large metal culvert in the drainage to maintain grade. Consult with the authorized officer for specific details.

Form 3160-3
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
OCT 31 2001

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: [X] DRILL [ ] REENTER	5. Lease Serial No. **UTU-78433**
b. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other [X] Single Zone [ ] Multiple Zone	6. If Indian, Allottee or Tribe Name **N/A**
2. Name of Operator **Pannonian Energy, Inc.**	7. If Unit or CA Agreement, Name and No. **N/A**
3A. Address **14 Inverness Dr. E., Englewood, CO 80112**	8. Lease Name and Well No. **Federal 23-21-9-19**
3b. Phone No. *(include area code)* **(303) 483-0044**	9. API Well No.
4. Location of Well *(Report location clearly and in accordance with any State requirements.*)* At surface **2139' FSL & 1991' FWL (NESW)** At proposed prod. Zone	10. Field and Pool, or Exploratory **Riverbend**
	11. Sec., T., R., M., or Blk, and Survey or Area **Section 21-T9S-R19E**
14. Distance in miles and direction from nearest town or post office* **Approximately 27.5 miles from Myton, Utah**	12. County or Parish **Uintah** 13. State **UT**

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) **1991'**	16. No. of Acres in lease **996.37**	17. Spacing Unit dedicated to this well **40**
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. **See Map C**	19. Proposed Depth **12,500**	20. BLM/BIA Bond No. on file **Utah BLM Bond No. 4127759**
21. Elevations (Show whether DF, KDB, RT, GL, etc.) **4740' GL**	22. Approximate date work will start* **Upon Approval**	23. Estimated duration **45 days**

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature Howard A Sharpe	Name *(Printed/Typed)* **Howard Sharpe**	Date 7-5-01
Title **Vice President**		
Approved by *(Signature)* Edwin L. Forsman	Name *(Printed/Typed)* EDWIN I FORSMAN	Date 1/14/02
Title **ACTING** **Assistant Field Manager Mineral Resources**	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

RECEIVED
MAY 23 2002
DIVISION OF
OIL, GAS AND MINING

PANNONIAN ENERGY, INC.

Federal 23-21-9-19
NESW, Section 21-T9S-R19E
Uintah County, Utah
Lease No. UTU-78433

DRILLING PLAN

1. *ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS & ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:*

Formation	Depth (ft)	Hydrocarbon/Water Bearing Zones
Uintah	Surface	
Green River	1,812'	Gas/Oil
Wasatch	5,362'	Gas
Mesa Verde	8,320'	Gas
TD	12,500'	

All usable (<10,000 ppm TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. All significant oil and gas shows will be tested to determine commercial potential. This information shall be reported to the Vernal BLM Office.

2. *PRESSURE CONTROL EQUIPMENT:*

All well control equipment shall be in accordance with Onshore Order #2 for 5M systems.

The minimum specifications for pressure control equipment that will be provided are included on the attached schematic diagram showing size, pressure ratings, testing procedures, and testing frequency.

5000# BOP With 4-1/2" Pipe Rams
5000# BOP With Blind Rams
5000# Annular

Auxiliary equipment to be used:

- Upper kelly cocks with handle available.

The manifold includes appropriate valves and adjustable chokes. The kill line will have one check valve. Ram type preventers will be pressure tested to full working pressure (utilizing a test plug) at:

- initial installation;
- whenever any seal subject to test pressure is broken;
- following related repairs;
- at 30 day intervals

The annular preventer will be pressure tested to 50 percent of the rated working pressure. All pressure tests shall be maintained at least ten minutes or until provisions of test are met, whichever is longer.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip.

A BOPE pit level drill will be conducted weekly for each drilling crew.

All tests and drills will be recorded in the drilling log.

The accumulator will have sufficient capacity to open the HCR valve, close all rams plus the annular preventer, and retain 200 psi above pre-charge pressure without the use of closing unit pumps. The system will have two independent power sources to close the preventers in accordance with 5M system requirements outlined in Onshore Order #2.

Remote controls shall be readily accessible to the driller. Master controls shall be at the accumulator.

3. *CASING & CEMENTING PROGRAM:*

A. The proposed casing program will be as follows:

Depth	Hole Size	Size	Grade	Weight	Thread	Condition
0-220'	17 ½"	13 3/8"	H-40	48#/ft	NA	New
0-3,500	12-1/4"	9-5/8"	J-55	40#/ft	LT&C	New
0-TD	7-7/8"	4-1/2"	P-110	13.5#/ft	LT&C	New

The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors, including: presence/absence of hydrocarbons, fracture gradients, usable water zones, formation pressures, lost circulation zones, other minerals, or other unusual characteristics.

All casing, except conductor casing, shall be new or reconditioned and tested. Used casing shall meet or exceed API standards for new casing.

The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing. If drive pipe is used, it may be left in place if its total length is less

than twenty feet below the surface. If the total length of the drive pipe is equal to or greater than twenty feet, it will be pulled prior to cementing surface casing, or it will be cemented in place.

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc., shall be utilized to help isolate the cement from contamination by the mud being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

The bottom three joints of the surface casing will have one centralizer per joint and one centralizer every fourth joint thereafter.

Casing design subject to revision based on geologic conditions encountered.

B. The proposed cementing program will be as follows:

Conductor String: Cement will be circulated to surface. Estimated volume (100% over theoretical value) 260 sxs Class "G", 3% $CaCl_2$ w/0.25 #/sx Flocele @ 15.6 ppg, 1.19 ft^3/sx.

Surface String: Cement will be circulated to surface. Estimated volume (35% over theoretical value):
Lead: 465 sx Hifill @ 12.0 ppg, 2.87 ft^3/sx.
Tail: 380 sx Class "G" 2% $CaCl_2$ @ 15.8 ppg, 1.16 ft^3/sx.

Production String: Estimated volume (gauge hole + 15%):

Lead: 450 sx Hifill @ 11.0 ppg, 3.84 ft^3/sx.
Tail: 1,790 sx 50/50 POZ @ 14.35 ppg, 1.26 ft^3/sx.

Actual volumes will be calculated and adjusted with caliper log prior to cementing. Ten percent excess will be pumped.

For surface casing, waiting on cement time will be adequate to achieve 500 psi compressive strength at the casing shoe prior to drilling out.

Anticipated cement tops will be reported as to depth, not the expected number of sacks of cement to be used. The Vernal District BLM Office will be notified, with sufficient lead time, in order to have a BLM representative on location while running casing strings and cementing.

After cementing the surface pipe and/or any intermediate strings, but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the Driller's Log.

4. DRILLING FLUIDS PROGRAM:

Interval	Type	Weight (ppg)	Viscosity	pH	Water Loss	Remarks
0-400'	Spud	8.4 -9.0	30-45+	8.0	NC	Gel & lime as required.
400'-Top of Wasatch	Wtr/gel	8.4-8.8	27-35	8.5-9.0	NC	Min. Wt.
Top of Wasatch-TD	KCL Mud	8.5-11.2	35-45	9.0-11.0	10-15cc @ TD	* Min Wt. to control formation pressure.

NC = no control

Sufficient quantities of mud material will be maintained on site or be readily accessible for the purpose of assuring well control. SPR will be recorded on daily drilling report after mudding up. Visual mud monitoring will be conducted during operations.

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

5. EVALUATION PROGRAM:

Logs: DLLT/GR: TD to base surface casing
SDL/DSN/GR/CAL: TD to 300' above Green River
MRIL: TD to 100' above Wasatch
(at operators discretion)

Cores: None anticipated.

DST's: None anticipated.

When cement has not been circulated to surface, the cement top will be determined by either a temperature survey or cement bond log. Should a temperature survey fail to locate the cement top, a cement bond log will be run. A field copy will be submitted to the Vernal BLM office.

Drill stem tests, if they are run, will adhere to the following requirements:

Initial opening of the drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the Authorized Officer. However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the Authorized Officer. Closed chamber DST's may be performed day or night.

Some means of reverse circulation shall be provided in case of flow to the surface showing evidence of hydrocarbons.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to be operational during the test shall have spark arresters or water-cooled exhausts.

6. *ABNORMAL CONDITIONS:*

No anticipated abnormal pressures or temperatures are expected to be encountered. No hydrogen sulfide is expected.

Anticipated maximum bottom-hole pressure is 6825 psi.

7. *OTHER INFORMATION:*

The anticipated starting date and duration of the operation will be as follows:

Starting Date:	Upon Approval
Duration:	35 Drilling Days & 20 Completion Days

If the well is completed as a dry hole or as a producer, Well Completion or Recompletion Report and Log (Form 3160-4) will be submitted within 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3160. Copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample descriptions, daily drilling reports, daily completion reports, and all other surveys or data obtained and compiled during the drilling, completion, and/or workover operations, will be submitted directly to the Authorized Officer or filed with Form 3160-4.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

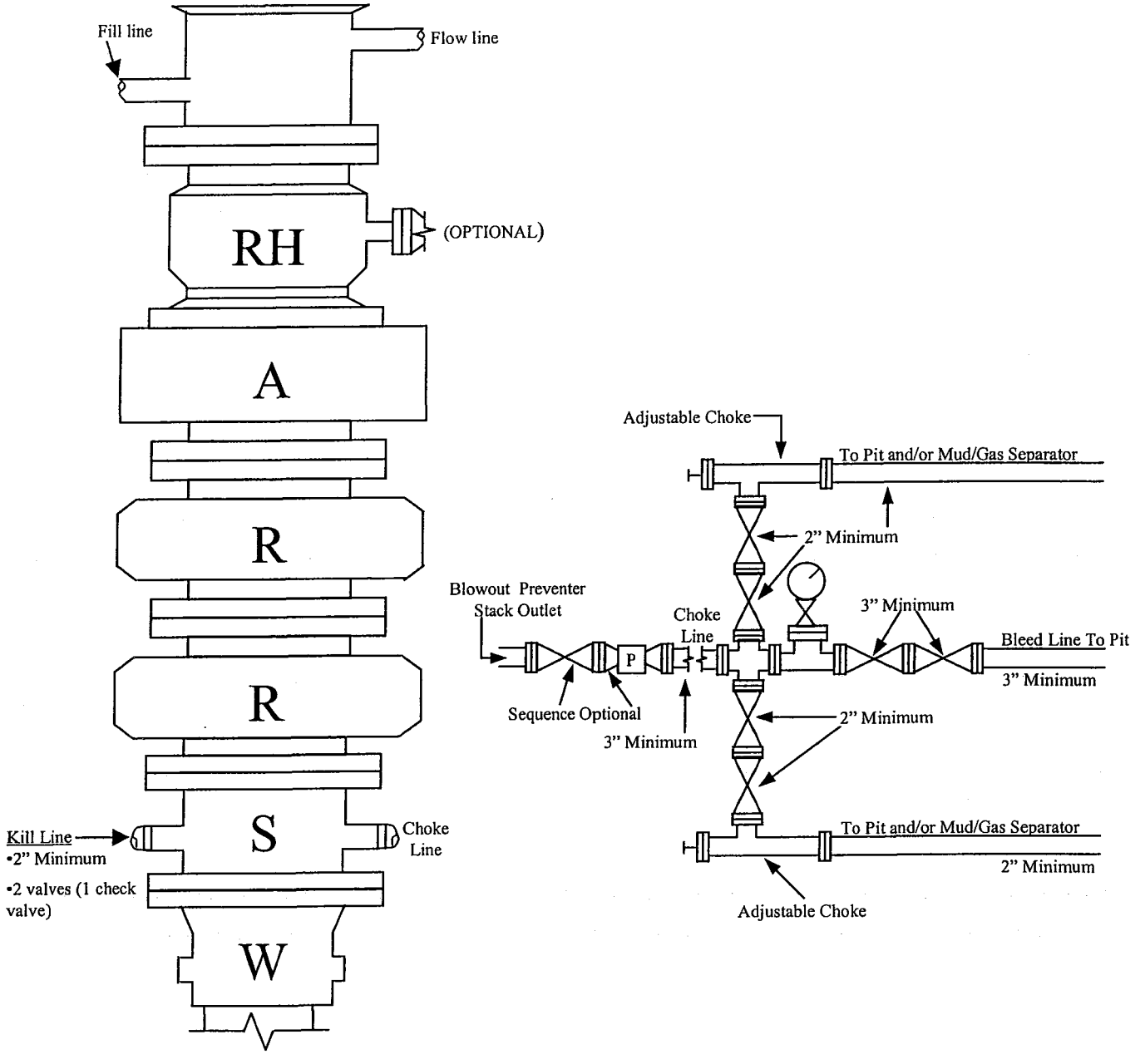
Deviations from the proposed drilling and/or workover program will be approved by the Authorized Officer. Safe drilling and operating practices will be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (form 3160-5) will be filed for approval of changes of plans and other operations in accordance with 43 CFR 3162.3-2.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders No. 1 and No. 2, and the approved Plan of Operations. The Operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

DOUBLE RAM TYPE PREVENTERS WITH AN OPTIONAL ROTATING HEAD

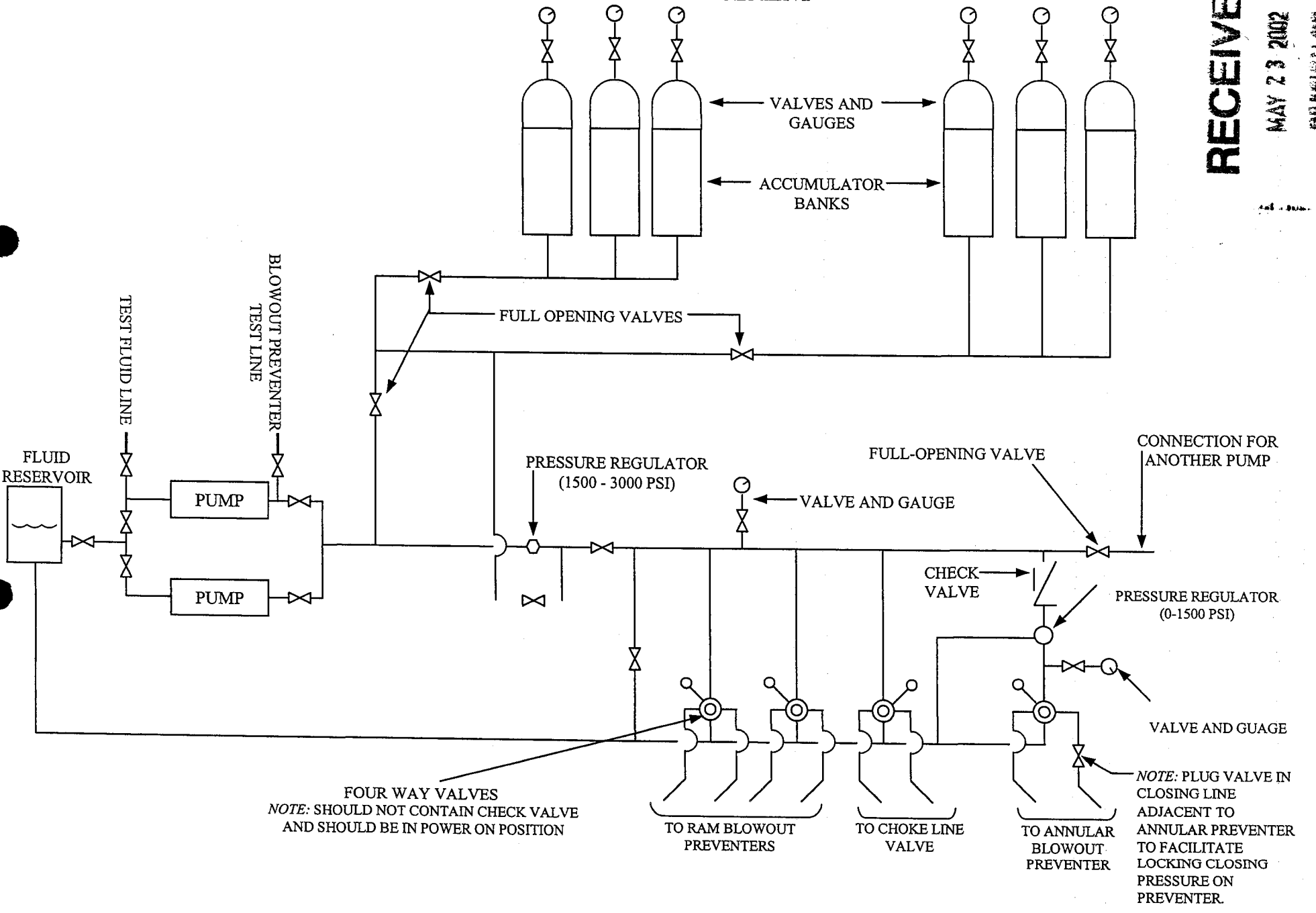
5000 psi system



* Note: Kill line shall be 2" minimum diameter and have two valves, one of which shall be a check valve. Both valves: 2" minimum.

Minimum BOP Stack	5000 psi Working Pressure
One Pipe Ram	5000 psi Working Pressure
One Blind Ram	5000 psi Working Pressure
One Annular	5000 psi Working Pressure
Well Head	5000 psi Working Pressure
Manifold	5000 psi Working Pressure

TYPICAL BLOWOUT PREVENTER CLOSING UNIT ARRANGEMENT



PANNONIAN ENERGY, INC.

Federal 23-21-9-19
NESW, Section 21-T9S-R19E
Uintah County, Utah
Lease No. UTU-78433

SURFACE USE PLAN

An onsite inspection for the subject well was conducted on June 26, 2001. Weather conditions at the time of the onsite inspection were overcast and windy. In attendance were the following individuals:

Stan Olmstead – Bureau of Land Management
Robert Kay – Uintah Engineering & Land Surveying
Robin Dean – Pannonian Energy, Inc.
Kelly Olds – Halliburton Integrated Solutions
Sheila Bremer – Halliburton Integrated Solutions

1. EXISTING ROADS:

Refer to Topo Maps A and B for location of existing access roads.

See Topo Map A for directions to the proposed location from Myton, Utah.

The existing roads will be maintained and kept in good repair.

2. ACCESS ROADS TO BE CONSTRUCTED:

Approximately 1.0 mile of new road will be required to access the proposed location.

The proposed access road was centerline staked.

The new road will be completed as a single lane 18-foot subgrade road with natural low water crossings (see Topo Map B).

Maximum grade will be less than eight percent.

There are no major cuts or fills, turnouts, or bridges anticipated along the proposed access route.

No gates, cattleguards, fence cuts, or modifications to existing facilities will be required on or along the proposed access route.

The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route.

Construction activity will not be conducted using frozen or saturated soils material or during periods when watershed damage is likely to occur.

The access road and associated drainage structures will be constructed and maintained in accordance with roading guidelines contained in the joint BLM/USFS publication: *Surface Operating Standards for Oil and Gas Exploration and Development*, Third Edition, and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction. During the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and drainage ditches and culverts will be kept clear and free flowing.

If the access road is dry during construction, drilling, and completion activities, water will be applied to the access road to help facilitate road compaction (during construction) and to minimize soil loss as a result of wind erosion.

3. *Location of Existing Wells Within a One-mile Radius:*

See Topo Map C.

Water wells – 0
Abandoned wells – 0
Temporarily Abandoned wells – 0
Disposal wells – 0
Drilling/Proposed wells – 0
Producing wells – 2
Shut-in wells – 0
Injection wells – 0
Monitoring wells - 0

4. *Location of Existing and/or Proposed Production Facilities:*

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope.

Containment berms will be constructed completely around production facilities designed to hold fluids (i.e., production tanks, produced water tanks, and/or heater/treater). The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 110 percent of the capacity of the largest tank, and be independent of the back cut.

All loading lines will be placed inside the berm surrounding the tank battery.

All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted Carlsbad Canyon (Munsell standard color 2.5y 6/2).

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flow line will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will

conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The Authorized Officer will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal Field Office. All meter measurement facilities will conform with Onshore Oil and Gas Order No. 4 for liquid hydrocarbons and Onshore Oil and Gas Order No. 5 for natural gas measurement.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the Authorized Officer.

5. *LOCATION AND TYPE OF WATER SUPPLY:*

Water for drilling will be obtained from the Dalbo Ouray Water Facility located in Section 32-T4S-R3E, Water Use Claim #43-8496, Application #53617. No water supply well will be drilled.

The water will be transported to location via truck by an approved commercial water hauler over the access roads shown on Topo Maps A and B.

6. *SOURCE OF CONSTRUCTION MATERIALS:*

Surface and subsoil materials in the immediate area will be utilized. Any construction materials that may be required for surfacing of the drill pad and access road will be obtained from a contractor having a permitted source of materials within the general area.

The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2-3.

No construction materials will be removed from Federal lands without prior approval.

7. *METHODS OF HANDLING WASTE DISPOSAL:*

Cuttings and drilling fluids will be contained in the reserve pit.

Tanks will be used for storage of produced fluids during testing. Fracture stimulation fluids will be flowed back into the reserve pit for evaporation.

Portable, self-contained chemical toilets will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to disposal of human and solid waste will be complied with.

All garbage and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage. Upon completion of operations, or as needed, the accumulated trash will be transported to a state approved waste disposal site. No trash will be placed in the reserve pit.

Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location. Any open pits will be fenced

during drilling operations and said fencing will be maintained until such time as the pits have been backfilled.

After first production, produced wastewater will be confined to the approved pit or storage tank for a period not to exceed 90 days. During the 90 day period, in accordance with Onshore Order No. 7, an application for approval of a permanent disposal method and location will be submitted for the Authorized Officer's approval.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

Operator maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be found at the site may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/ stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous and EHS and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

8. *ANCILLARY FACILITIES:*

None anticipated.

9. *WELL SITE LAYOUT:*

A. General Information:

See the attached *Location Layout* and *Typical Cross Sections* diagrams showing the proposed drill pad cross sections and cut and fills in relation to topographic features as well as access onto the pad and soil stockpiles.

See the attached *Typical Rig Layout* diagram showing the location of the reserve pit, flare pit, living facilities, and rig orientation with respect to the pad and other facilities.

If necessary, in order to divert surface runoff, a drainage ditch will be constructed around the upslope side of the well site.

All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad, and spoil and topsoil storage areas).

The fill section of the pad that supports the drilling rig and any other heavy equipment will be compacted.

B. Reserve Pit:

The reserve pit will be constructed in a way that minimizes the accumulation of surface precipitation runoff into the pit. This may be accomplished by appropriate placement of subsoil/topsoil storage areas and/or construction of berms or ditches.

The reserve pit will be fenced on three sides during drilling operations and the fourth side will be fenced after the drilling rig moves off the location. Thirty-nine (39) inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire will not be used if pipe or some type of reinforcement rod is attached to the top of the entire fence. The net wire will be no more than two inches above the ground. The barbed wire will be three inches over the net wire. Total height of the fence will be at least 42 inches. Corner posts will be cemented and/or braced in such a manner to keep the fence tight at all times. Standard steel, wood, or pipe posts will be used between the corner braces. Maximum distance between any 2 fence posts will not be greater than 16 feet. All wire will be stretched using a stretching device before it is attached to the corner posts.

Siphons, catchments, and/or absorbent pads will be installed to keep hydrocarbons produced by the drilling rig from entering the reserve pit. Hydrocarbons and contaminated pads will be disposed of in accordance with DEQ requirements.

The reserve pit will be backfilled as soon as dry after drilling and completion operations are finished. If natural evaporation of the reserve pit is not feasible, alternative methods of drying, removal of fluids, or other treatment will be developed. If fluids will be disposed of by any method other than evaporation or hauling to a DEQ approved disposal pit, prior approval from the Authorized Officer will be obtained.

If a liner is required, then the reserve pit will be lined with a synthetic liner. The reserve pit bottom and side walls shall be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, or bentonite) that could damage the liner. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place.

10. PLANS FOR RECLAMATION OF THE SURFACE:

Producing Location:

- Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.
- If a synthetic, nylon reinforced, liner is used, the excess liner will be cut off and removed and the remaining liner will be torn and perforated while backfilling the reserve pit. Alternatively, the pit will be pumped dry, the liner folded into the pit, and the pit backfilled.
- Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

- The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion, weather permitting. This will be completed by backfilling and crowning the pit to prevent water from standing.

- Seeding will be performed immediately after the location has been reclaimed and the pit has been backfilled, regardless of the time of year. The Bureau of Land Management will specify a seed mixture. Seed will be broadcast and walked in with a dozer. The topsoil stockpile will be seeded as soon as the location has been constructed with the same recommended seed mix.

Dry Hole/Abandoned Location:

- On lands administered by the BLM, abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions may include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and the re-establishment of vegetation as specified.

- All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

11. SURFACE OWNERSHIP:

Surface ownership of the proposed location is as follows:

Well Site & Access Road: Bureau of Land Management

12. OTHER INFORMATION:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice of Lessees. The operator is fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

The Operator will control noxious weeds along right-of-ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office. On BLM administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides or other pesticides or possibly hazardous chemicals.

Drilling rigs and/or equipment used during drilling operations on this location will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. If BLM authorization is obtained, such storage is only a temporary measure.

The Operator is responsible for informing all persons in the area who are associated with this project that they may be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in the archaeological report, and to the existing roadways and/or evaluated access routes. If historic or archaeological materials are uncovered during construction, the Operator is to immediately stop work that might further disturb such materials and contact the Authorized Officer. Within five working days, the Authorized Officer will inform the Operator as to:

- whether the materials appear eligible for the National Historic Register of Historic Places;
- the mitigation measures the Operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- a time frame for the Authorized Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that mitigation is appropriate.
- If the Operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Authorized Officer will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise the Operator will be responsible for mitigation costs. The Authorized Officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Officer that required mitigation has been completed, the Operator will then be allowed to resume construction.

A Class III archeological survey has been conducted by Metcalf Archeological Consultants. No significant cultural resources were found and clearance is recommended. Metcalf Archeological Consultants will submit a copy of this report to the appropriate agencies.

13. LESSEE OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:

Mike Decker
Pannonian Energy, Inc.
14 Inverness Drive East
Suite H-236
Englewood, Colorado 80112-5625
(303) 204-3880

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Pannonian Energy, Inc., and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

7-5-01
Date

Howard Sharpe, Vice President

RECEIVED
MAY 23 2002
DIVISION OF
OIL, GAS AND MINING

6400 South Fiddlers Green Circle
14 Inverness Drive East, Suite 236
Englewood, CO 80112
Phone: 303-713-0054

Pannonian Energy Inc.

21 August, 2001

Leslie Crinklaw
Bureau of Land Management
170 South 500 East
Vernal, Utah 84078-2799

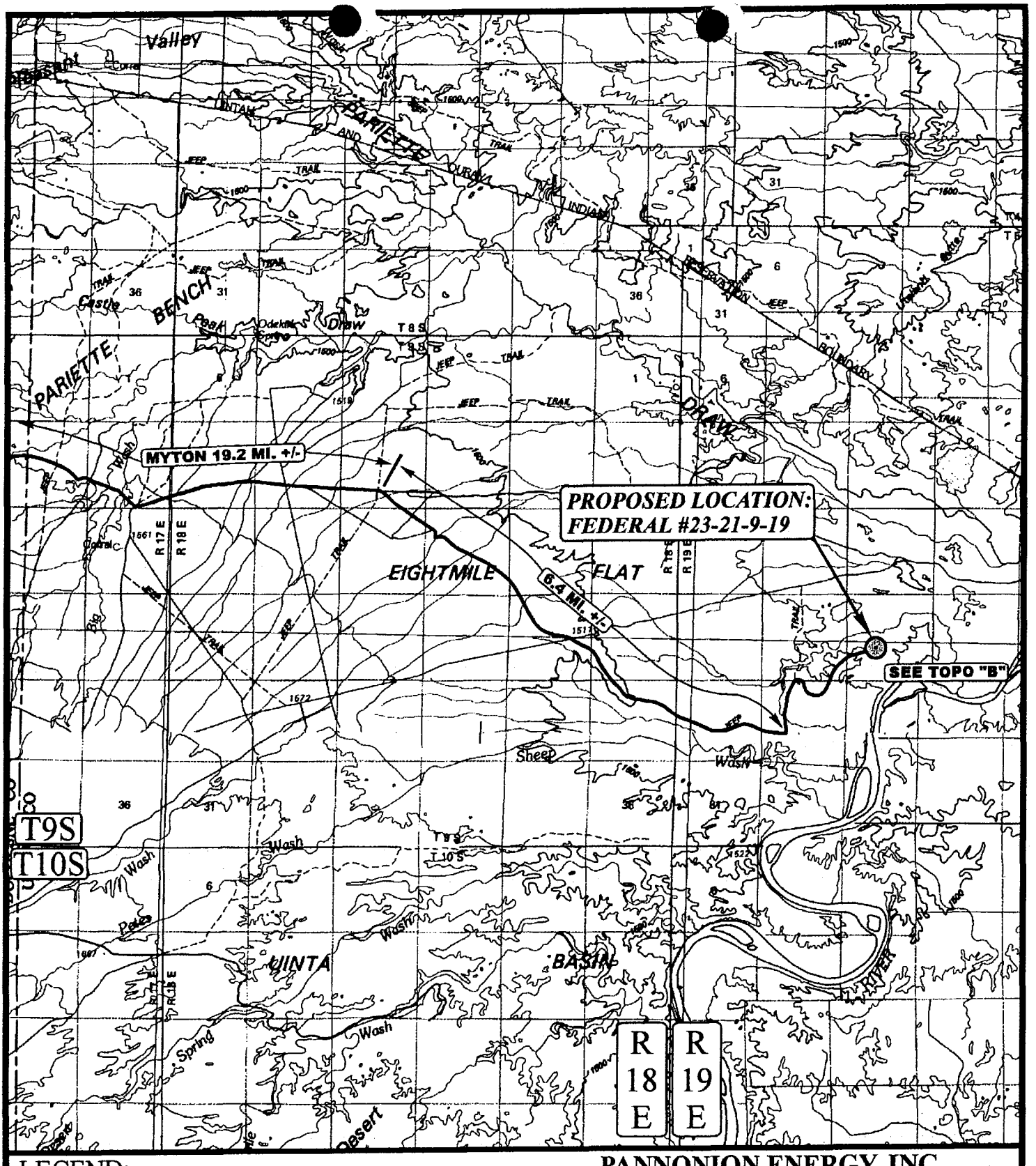
SELF CERTIFICATION STATEMENT

Please be advised that Pannonian Energy Inc. (a wholly owned subsidiary of Gasco Energy, Inc.) is considered to be the operator of well # Fed. 23-21-9-19, located in the NESW, Sec 21, T9S, R19E, Lease no. U-78433. Pannonian Energy Inc. is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond # 4127759 US/BLM.

Sincerely,

Howard O. Sharpe
Executive, Vice President

He Who Helps Early, Helps Twice



LEGEND:

PROPOSED LOCATION

N

PANNONION ENERGY, INC.

FEDERAL #23-21-9-19

SECTION 21, T9S, R19E, S.L.B.&M.

2139' FSL 1991' FWL

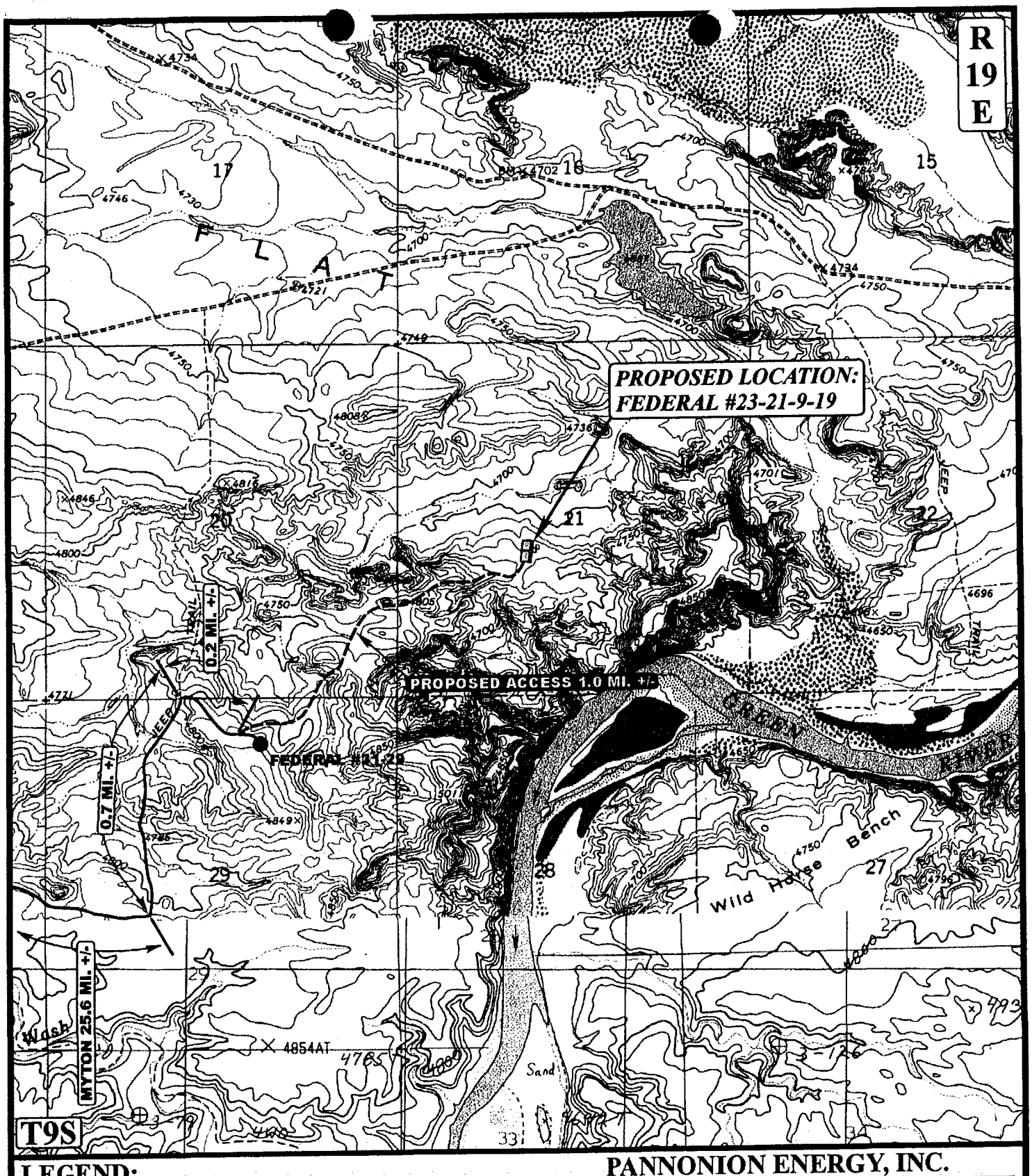
RECEIVED

MAY 13 2002

DIV. OF OIL, GAS & MINING

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	6 (MONTH)	5 (DAY)	02 (YEAR)	TOPO
SCALE: 1 : 100,000	DRAWN BY: K.G.	REVISED: 00-00-00		



LEGEND:

PROPOSED ACCESS ROAD

EXISTING ROAD

N

PANNONION ENERGY, INC.

FEDERAL #23-21-9-19

SECTION 21, T9S, R19E, S.L.B.&M.

2139' FSL 1981' FWL

RECEIVED

MAY 2 3 2002

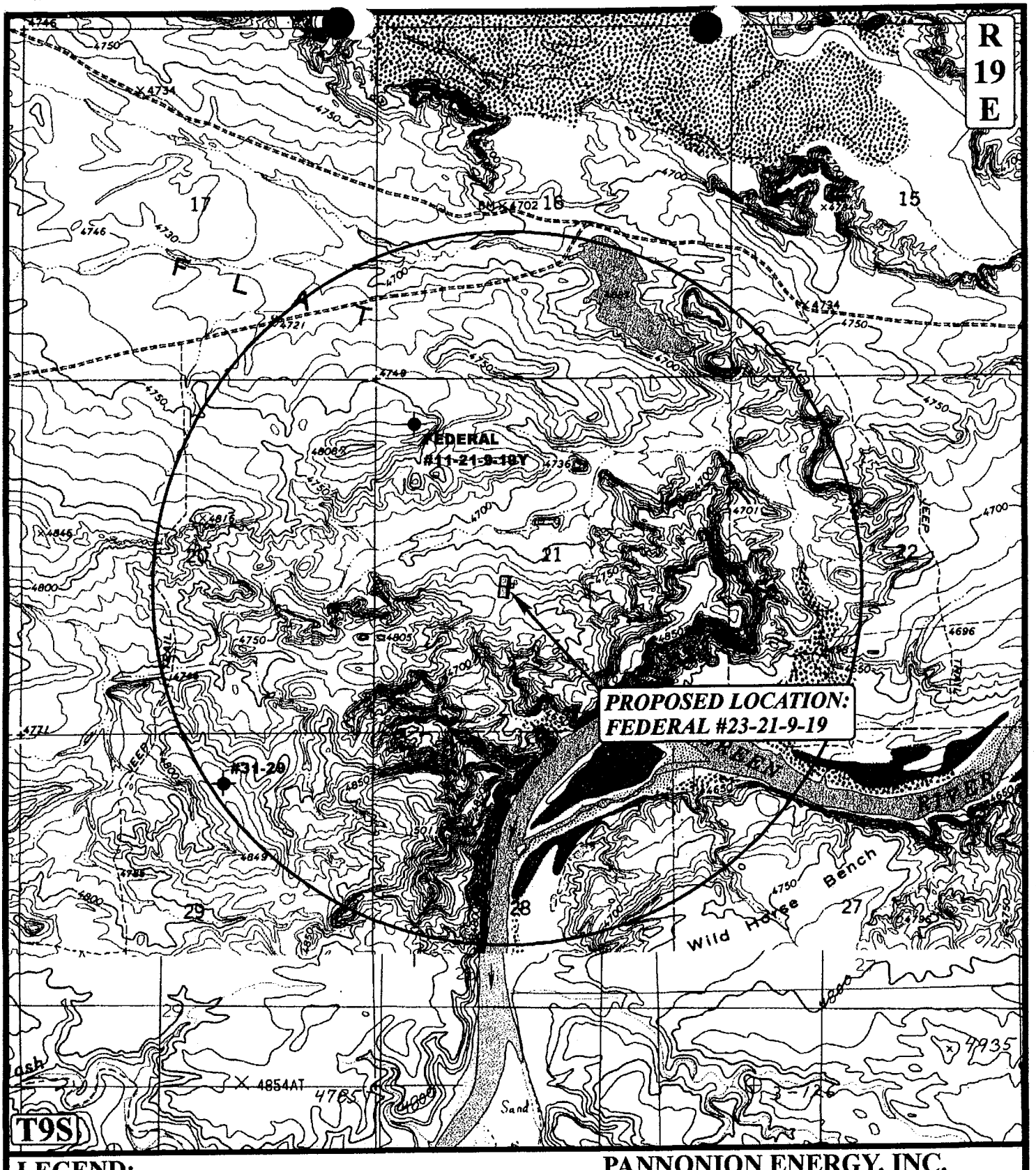
DIV. OF OIL, GAS & MINING

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078

(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	DW	13	01
	OIL	GAS	MINING
SCALE: 1" = 2000'	DRAWN BY: K.G.	REVISED: 00-00-00	B TOPO



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

PANNONION ENERGY, INC.

FEDERAL #23-21-9-19

SECTION 21, T9S, R19E, S.L.B.&M.

2139' FSL & 1913' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP

SCALE: 1" = 2000' | DRAWN BY: K.G. | REVISED: 00-00-00

C TOPO

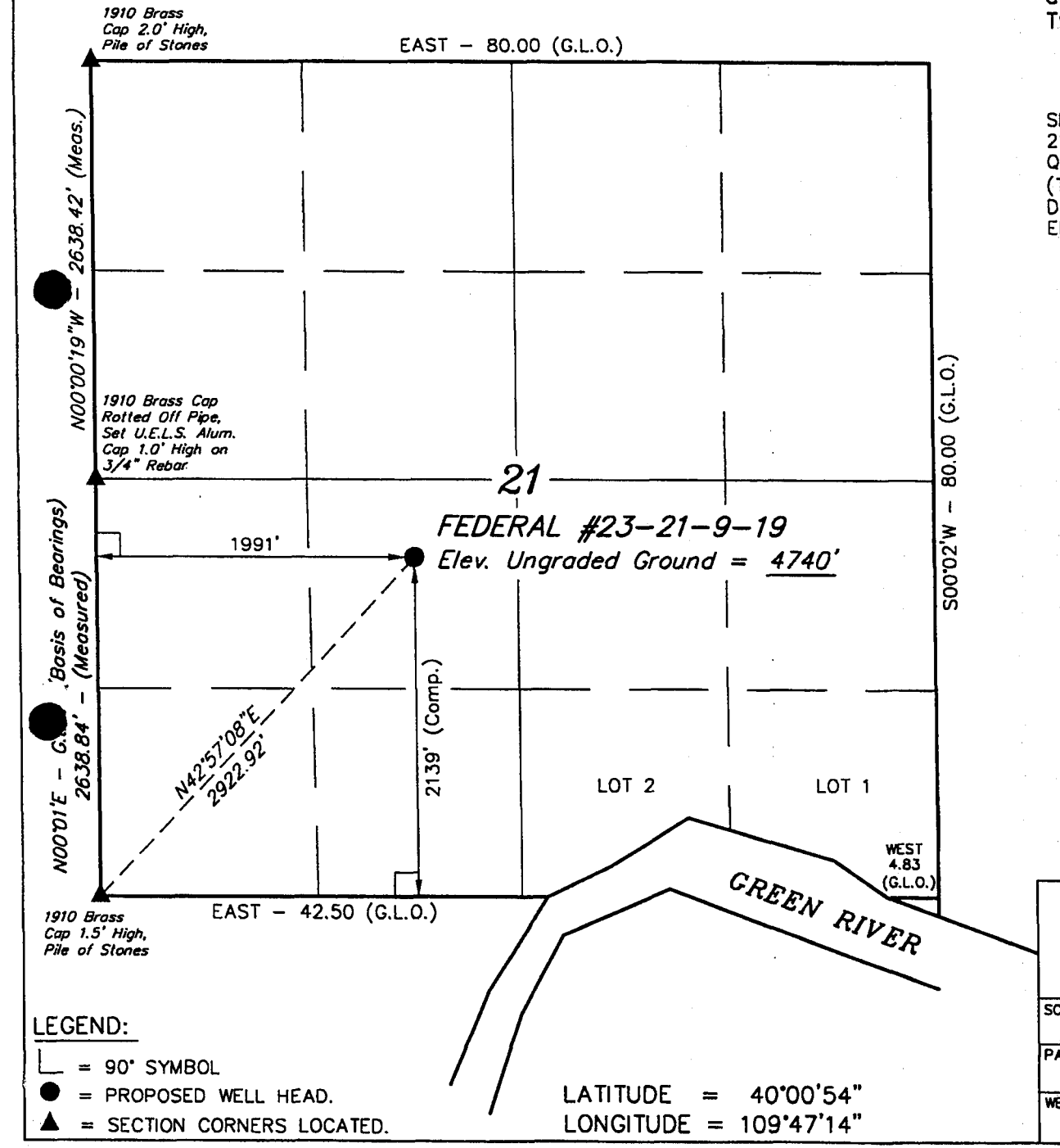
T9S, R19E, S.L.B.&M.

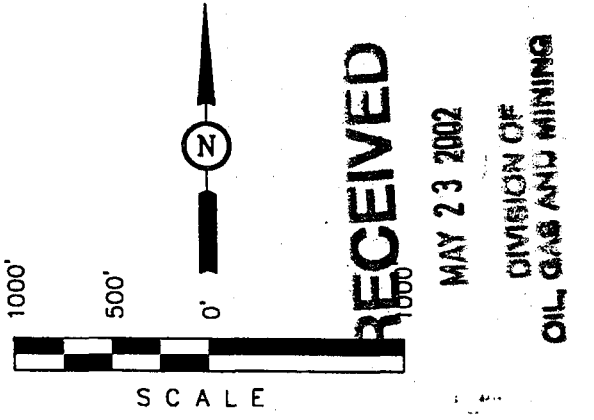
PANNONIAN ENERGY, INC.

Well location, FEDERAL #23-21-9-19, located as shown in the NE 1/4 SW 1/4 of Section 21, T9S, R19E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 21, T9S, R19E, S.L.B.&M. TAKEN FROM THE UTELAND BUTTE QUADRANGLE, UTAH, UINTAH COUNTY 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4749 FEET.





CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

LEGEND:

└ = 90° SYMBOL
● = PROPOSED WELL HEAD.
▲ = SECTION CORNERS LOCATED.

LATITUDE = 40°00'54"
LONGITUDE = 109°47'14"

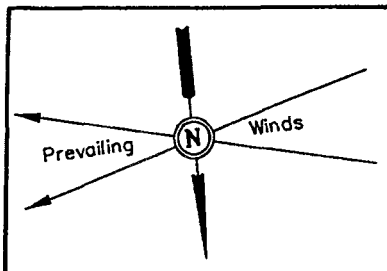
UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE: 1" = 1000'	DATE SURVEYED: 5-31-01	DATE DRAWN: 6-7-01
PARTY: D.A. P.M. D.COX	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: PANNONIAN ENERGY, INC.	

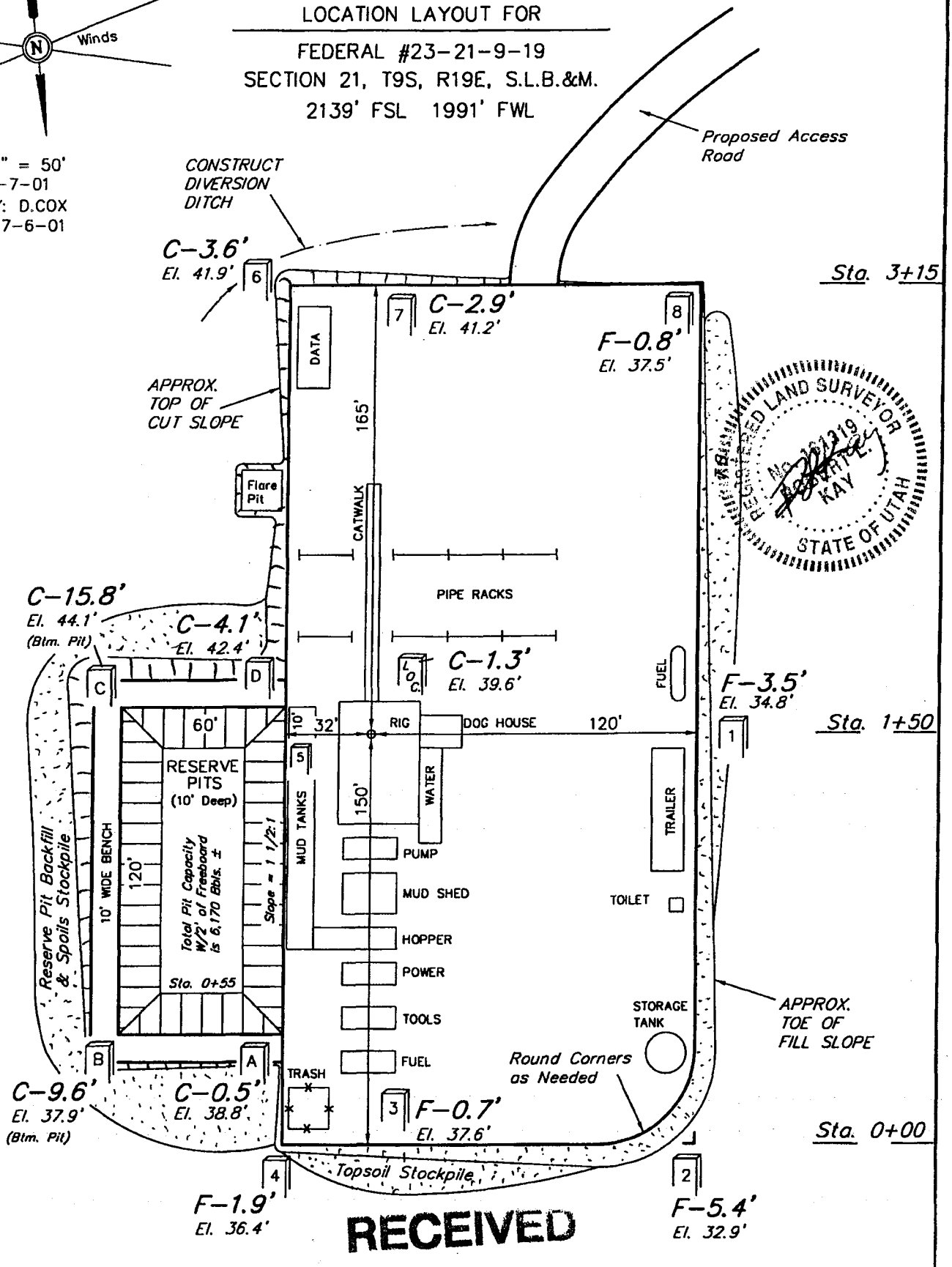
PANNONIAN ENERGY, INC.

LOCATION LAYOUT FOR

FEDERAL #23-21-9-19
SECTION 21, T9S, R19E, S.L.B.&M.
2139' FSL 1991' FWL



SCALE: 1" = 50'
DATE: 6-7-01
DRAWN BY: D.COX
REVISED: 7-6-01



REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH

RECEIVED
MAY 23 2002
DIVISION OF OIL, GAS AND MINING

Elev. Ungraded Ground at Location Stake = 4739.6'
Elev. Graded Ground at Location Stake = 4738.3'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

PANNONIAN ENERGY, INC.

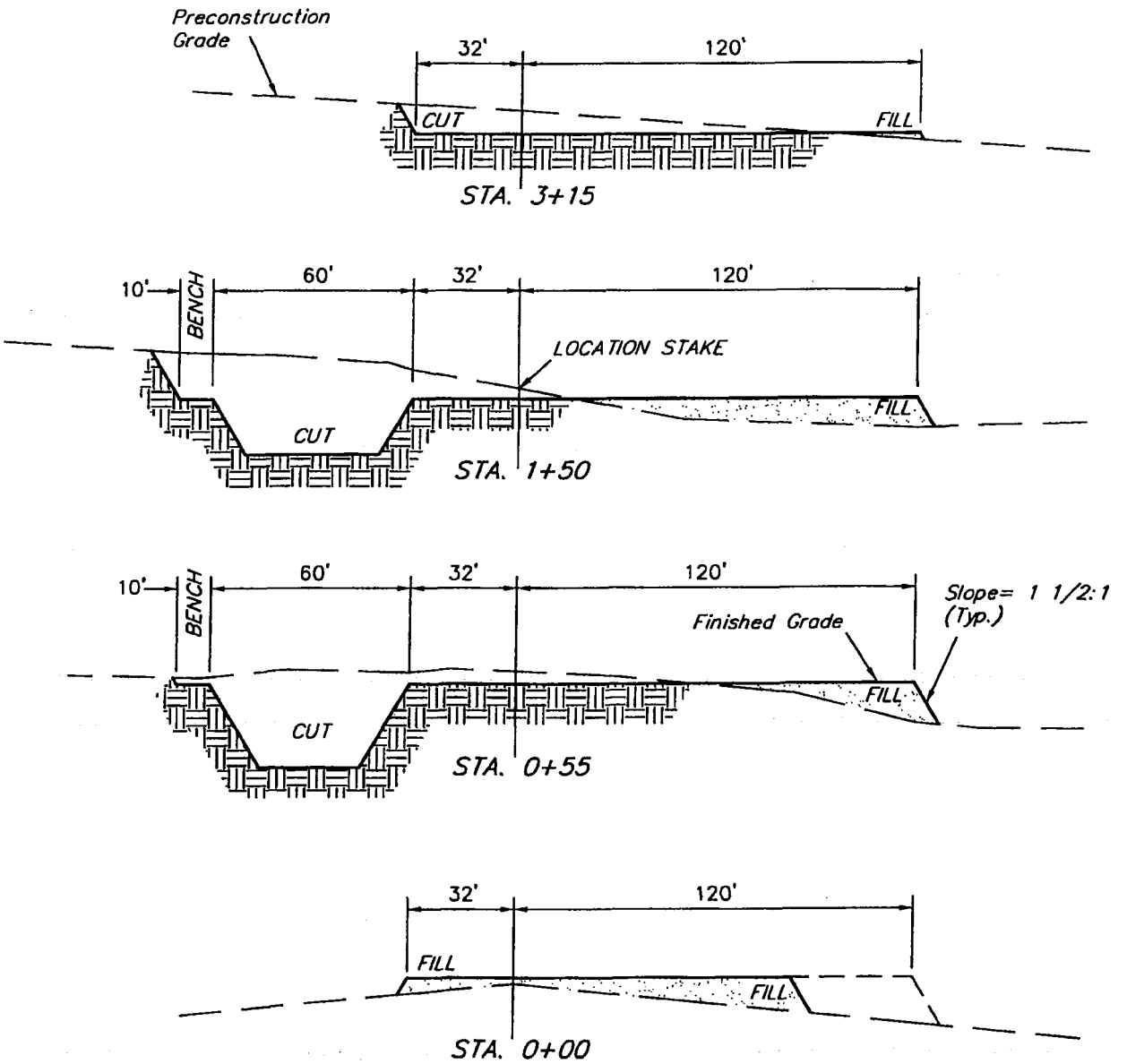
TYPICAL CROSS SECTION FOR

FEDERAL #23-21-9-19
SECTION 21, T9S, R19E, S.L.B.&M.
2139' FSL 1991' FWL

1" = 20'
X-Section Scale
1" = 50'

DATE: 6-7-01
DRAWN BY: D.COX
REVISED: 7-6-01

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
ROBERT L. KAY
STATE OF UTAH



APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 1,070 Cu. Yds.
Remaining Location = 3,780 Cu. Yds.
TOTAL CUT = 4,850 CU.YDS.
FILL = 2,750 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION = 1,960 Cu. Yds.
Topsoil & Pit Backfill (1½ Vol.) = 1,960 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation) = 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 South 200 East • Vernal, Utah 84078 • (435) 789-1017

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Pannonian Energy, Inc.

Well Name & Number: Federal 23-21-9-19

API Number: 43-047-34199

Lease Number: U-78443

Location: NESW Sec. 21 T.9S R. 19E

Agreement: N/A

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

1. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to John Mayers of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

3. Casing Program and Auxiliary Equipment

In addition to the cementing proposal for the surface casing, Class G neat cement shall be placed within the surface casing-conductor annulus from the surface down to a minimum of 200'

4. Mud Program and Circulating Medium

None

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

To evaluate cement quality across the usable water zone, a Cement Bond Log will be required from the surface casing shoe to the base of the conductor pipe.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Written notification of such must be submitted to this office not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5(d) shall be submitted to the appropriate Field Office within 60 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (1).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on lease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform to Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to $10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Ed Forsman (435) 828-7874
Petroleum Engineer

Kirk Fleetwood (435) 828-7875
Petroleum Engineer

BLM FAX Machine (435) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids
Gas plant cooling tower cleaning wastes
Painting wastes
Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids
Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
Refinery wastes
Liquid and solid wastes generated by crude oil and tank bottom reclaimers
Used equipment lubrication oils
Waste compressor oil, filters, and blowdown
Used hydraulic fluids
Waste solvents
Waste in transportation pipeline-related pits
Caustic or acid cleaners
Boiler cleaning wastes
Boiler refractory bricks
Incinerator ash
Laboratory wastes
Sanitary wastes
Pesticide wastes
Radioactive tracer wastes
Drums, insulation and miscellaneous solids.

SURFACE USE PROGRAM

Conditions of Approval (COA)

Pannonian Energy, Inc. - Well No. 23-21-9-19

Location and Type of Water Supply:

Your permit to drill identified that the Dalbo Ouray Water facility would be used as the water supply for drilling. If any other water source is necessary it will require additional approval by the authorized officer of the Vernal Field Office.

Source of Construction Materials:

Only subsurface soils will be used for construction. All top soils will be stockpiled and identified in the APD for future reclamation of disturbed areas.

Plans For Reclamation of Location:

All seeding for reclamation operations at this location shall use the following seed mixture:

Gardners saltbush	Atriplex gardneri	3 lbs/acre
shadscale	Atriplex confertifolia	3 lbs/acre
mat salt bush	Atriplex corrugata	3 lbs/acre
galleta grass	Hilaria jamesii	3 lbs/acre

If the seed mixture is to be aerially broadcasted, the pounds per acre shall be doubled. All seed poundages are in Pure Live Seed.

Immediately after construction the stockpiled top soil will be seeded and the seed worked into the soil by "walking" the pile with caterpillar tracks.

Other Information:

The access road in the SESE Section 20, T9S, R19E crosses a deep drainage. This site is immediately south west of the proposed Inland Production Company well No. 16-20-9-19. If Pannonian constructs the access road before Inland Production Company, Pannonian would be required to install a large metal culvert in the drainage to maintain grade. Consult with the authorized officer for specific details.

GASCO Energy Inc

Daily Completion Report
Federal #23-21-9-19
NESW, Sec. 21, T9S, R19E
Uintah County, Utah

API # 43-049-34199

Federal 23-21-9-19
Daily Drilling Report

Distribution list: M. Decker, M. Erickson, R. Dean, H. Sharpe, J. Longwell, Phillips Petroleum, and Halliburton

8/21/02	Notify Ed Forsman, Vernal BLM of intent to begin location construction.
8/22/02	MI Huffman construction. Start building road from 31-29 to new location. Start to level off location. Hit solid rock near grade on location.
8/23/02	Work on road to location-70% complete. Location leveled except for two rock humps which will need to be blasted.
8/24/02	Move in rock drill start drilling blast holes in pit area. Drill steel broke, wait on new steel.
8/25/02	Wait on new drill steel.
8/26/02	Wait on new drill steel.
8/27/02	Finished drilling 450 blast holes, load holes with prell and dynamite. Blast pit area and two rock humps on location.
8/28/02	Push rubble out of pit area with cat. Level and extend location to accommodate CAZA rig #61. Move in Rat hole rig.
8/29/02	Blast rock mound in pit area, finish pushing rubble out of pit. Blade and compact road. Expect to spud well with rat hole rig midday 8/29/02.
8/30/02	Drill Rathole and mousehole. Finish dressing off location. Install pit liner.
8/31/02	Spud well 8/30/02 with Bill Junior's rathole rig. Drill 17 ½" hole to 233'. Run 13 3/8" 48# H-40 casing to 225'. Cement with 220 sacks Class G at 15.6 PPG, 2% CaCl , and ¼# flocele. Circulated 14 bbls to surface. Start moving in CAZA #61.
9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
9/3/02	SDF Labor Day
9/4/02	Continue moving in CAZA rig #61
9/5/02	Rig up CAZA #61.
9/6/02	Rig up CAZA #61, expect to start drilling on 9/6/02.

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
UTU-78433

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA/Agreement, Name and/or No.
NA

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No.
Federal 23-21-9-19

2. Name of Operator
Pannonian Energy a wholly owned subsidiary of Gasco Energy

9. API Well No.
43-047-34199

3a. Address
14 Inverness Dr. E H-236 Englewood CO. 80112

3b. Phone No. *(include area code)*
303-483-0044

10. Field and Pool, or Exploratory Area
Riverbend

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
2139' FSL & 1991' FWL, Sec. 21, T9S, R19E

11. County or Parish, State
Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Pannonian Energy (a wholly-owned subsidiary of Gasco Energy, Inc.) would like to give notice of its intent to begin construction on the location on August 21, 2002. Verbal Notification was given to Mr. Edwin Forsman in the Vernal office on 8-20-02 by Mr. John Longwell.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
AUG 26 2002
DIVISION OF OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
John Longwell Title **Operations Manager**

Signature J Longwell Date **August 21, 2002**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Daily Completion Report

GASCO Energy Inc

Federal #23-21-9-19
NESW, Sec. 21, T9S, R19E
Uintah County, Utah

43-049-34199

Federal 23-21-9-19
Daily Drilling Report

Distribution list: M. Decker, M. Erickson, R. Dean, H. Sharpe, J. Longwell, Phillips Petroleum, and Halliburton

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8/24/02	Move in rock drill start drilling blast holes in pit area. Drill steel broke, wait on new steel.
8/25/02	Wait on new drill steel.
8/26/02	Wait on new drill steel.
8/27/02	Finished drilling 450 blast holes, load holes with prell and dynamite. Blast pit area and two rock humps on location.
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9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
9/3/02	SDF Labor Day
9/4/02	Continue moving in CAZA rig #61

Daily Completion Report

GASCO Energy Inc

Federal #23-21-9-19
NESW, Sec. 21, T9S, R19E
Uintah County, Utah

9/5/02 Rig up CAZA #61.

9/6/02 Rig up CAZA #61, expect to start drilling on 9/6/02.

9/7/02 Finish rigging up CAZA rig #61.

9/8/02 Drill rathole, PU BHA, WO tools, GIH with bit #1 a 11' Security XC33N, Tag at 178', prime pumps, cut drill line, replace wash pipe packing.

9/9/02 PO drilling at 283'.Repair draworks brakes. Begin drilling cement at 04:00 AM 9-9-02. Drill cement from 178' to 225', drill new hole from 225' to 284'. Mud is water.

9/10/02 PO drilling at 1120'. Drill and survey from 284' to 1120'. Surveys: ½ deg at 500', ½ deg at 1050'. WOB 25,000#, 20 RPM, PP 1050 psi. Mud is water

9/11/02 PO Drilling at 2226'. Drill and survey from 1120' to 2226', started getting Gilsonite returns and encountered deviation at approx 2000'. Reduced WOB and started fanning bit to get hole straight again. Surveys: ½ deg at 1402', ½ deg at 1635', 2 ½ deg at 2012', 2 ¾ deg at 2031'. WOB 45,000# - 30,000#, Mud is water, RPM 20+200, PP 1440 psi.

9/12/02 PO Drilling at 3004'. Drill and survey from 2226' to 3004' with bit #1. Surveys: 2 ½ deg at 2197', 2 deg at 2471', 1 ½ deg at 2292', 2 ½ deg at 2924'. MW 8.5ppg, Vis 26, WOB 40, RPM 20+200, PP 1350, GPM 520.

9/13/02 PO Repair swivel packing. Drill and survey from 3004' to 3601' with bit #1. NOTE: had gas kick at 2783'. Surveys: 1 ½ deg at 3172', 2 deg at 3333'. MW 9.0, Vis 41, WOB 45,000#, RPM 20 + 200, PP 1700. Mud slightly cut back due to water flow.

9/14/02 PO Drilling at 3920'. Drill to 3703', raise mud weight to kill influx, circulate out gas and water for 1 hour, POOH for new bit, GIH with bit#2 a security 11'XC33N. Drill and survey from 3703' to 3920'. Surveys: 1 ½ deg at 3633'. MW 9.2, Vis 41, WOB 50,000#, RPM 20+200, PP 1600, GPM 569, Penetration rate 13-20'/hr.

9/15/02 PO Drilling at 4375'. Drill and survey from 3920' to 4375' with bit #2. Surveys: ½ deg at 3896'. ½ deg at 4234'. MW 9.3, Vis 40, RPM 20+200, WOB 45,000#, PP 1650#, GPM 560.

9/16/02 PO Logging at 4558'. Drill and survey from 4375' to 4558' with bit #2. Short trip- no flow. POOH and RU Halliburton Loggers. Surveys: 1 ½ deg at 4296', 1 ¾ deg at 4497', MW 9.6, Vis 41, RPM 25+200, WOB 55,000#, PP 1750#, GPM 555.

9/17/02 PO Laydown Hydril. Finish logging well, GIH to 3000' and circulate out gas. POOH, Run 106 jts of 8 5/8" 32# J-55 special drift ST&C casing to 4558'. RU Halliburton and cement casing

Daily Completion Report

GASCO Energy Inc

Federal #23-21-9-19
NESW, Sec. 21, T9S, R19E
Uintah County, Utah

with 560 sxs of Hi-Fill at 11.0 ppg, followed by 220 sxs of Class "G" mixed at 15.6 ppg. Performed two top jobs with 150 sxs of Class "G".

9/18/02 PO WO upper kelly cock. ND divertor, cut off wellhead and casing stub, weld on 8 5/8" wellhead and test same. NU 11" 5000# BOPS, test same, Upper kelly cock failed test BLM shut down rig until new one arrives.

9/19/02 PO Drilling at 4872'. Finish testing BOP's and Kelly cock to 5000#, GIH with BHA, TOOH to change motor. GIH with 7 7/8" Security SEB 564. Drill cement and shoe and test formation to 640 psi. Drill from 4558' to 4872'. MW 8.5, Vis 28, FL 19, RPM 60, WOB 45,000#, PP 1200, GPM 358.

9/20/02 PO Drilling at 5503'. Drill Green River from 4872' to 5503' with bit #3. Survey: 2 deg at 4960'. MW 8.7, Vis 26, Ph 11.5, RPM 50+, WOB 45,000#, PP 1250, GPM 343.

9/21/02 PO Drilling at 6068'. Drill Green River and Wasatch formation with bit #3 from 5503' to 6068'. MW 8.8 DAPP, Vis 29, Ph 10, RPM 60+, WOB 45,000#, PP 1250.

9/22/02 PO Drilling at 6536'. Drill Wasatch formation with bit #3 to 6131', POOH and LD 31 jts DP and GIH with bit #4, a security 7 7/8" FM 2555. PU 32 new jts DP and drill to 6536'. MW 8.5 DAPP, Vis 26, PH 8, RPM 60+, WOB 15,000#, PP 1000, GPM 356. Bit #3 made 1573' in 55 hrs.

9/23/02 PO Tripping. Drill Wasatch from 6536' to 7602', pump slug, POOH and LD 20# DP. MW 8.6 DAPP, Vis 28, Ph 7.5, RPM 60+, WOB 10,000#, PP 1000.

9/24/02 PO Drilling at 7769'. LDDP for hardbanding, switch pipe around, GIH with BHA and drill Wasatch formation from 7602' to 7769'. MW 8.7, Vis 30, WOB 35,000#, RPM 60+, PP 1150.

9/25/02 PO Drilling at 8133'. Drill Wasatch formation from 7769' to 8133' with bit #5, a security XS-31. Bit #4, a diamond bit, was pulled green and made 1471' in 30 ½ hrs. MW 8.8, Vis 30, WOB 40,000#, RPM 40+, PP1200.

9/26/02 PO Drilling at 8507'. Drill Wasatch formation from 8133' to 8507'with bit #5. MW 9.1, Vis 30, WOB 46,000#, PP1250, RPM 40+.

9/27/02 PO Tripping for new bit. Drill Wasatch formation from 8507' to 8752' with bit #5, pump slug, POOH. MW 9.1, Vis 38, RPM 40+, PP 1300, Ph 8, Fl 20.

9/28/02 PO Drilling at 8950'. GIH with bit #6, a security XS-33, Drill Wasatch from 8752' to 8950'. MW 9.2, Vis 37, RPM 45+, WOB 48,000#, PP 1450, Bit #5 made 1150' in 78 hrs.

Daily Completion Report

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Uintah County, Utah

9/29/02	PO Drilling at 9217'. Drilled Wasatch formation from 8950' to 9217'. Made 268' in 24 hrs. MW 9.6, Vis 37, Ph 8, Cl 6100, WOB 47,000#, RPM 46+,
9/30/02	PO Drilling at 9304'. Drill to 9236 with bit #6. POOH for bit #7, a Security XS-44. Drill Mesa Verde from 9236' to 9304'. Made 87' in last 24 hrs. Bit #6 made 484' in 43 hrs. MW 9.9, Vis 38, Fl 13.6, Ph 8.0, Cl 45,000, WOB 48,000#, RPM 46+, PP 1400.
10/1/02	PO Drilling at 9503'. Drill Mesa Verde from 9304' to 9503'. Made 199' in 24 hrs with bit #7. MW 9.8, Vis 39, Fl 16, Cl 55,000, WOB 45,000#, RPM 48+, PP 1400.
10/2/02	PO Drilling at 9706'. Drill Mesa Verde from 9499' to 9706' with bit #7. MW 9.8, Vis 38, Fl 12, Ph 7, WOB 45,000#, RPM 60, PP 1450.
10/3/02	PO Drilling at 9842'. Drill Mesa Verde from 9706' to 9739' POOH for new bit, change motor, test BOP's, and GIH with bit #8, a security XS-44. GIH and drill from 9739' to 9842'. Bit #7 made 503' in 59 ½ hrs. Mw 9.8, Vis 36, Fl 12, Ph 7, WOB 45,000#, RPM 45+
10/4/02	PO Tripping for new bit. Drill Mesa Verde from 9842' to 9970' with bit #8, pump pill, and POOH, GIH with bit #9, a security XS-44. Bit #8 made 231' in 23 hrs and had a bearing failure. MW 10, Vis 40, FL 12, Ph 7.
10/5/02	PO Drilling at 10164'. Drill Mesa Verde from 9970' to 10164' with bit #9, had 3 shows from 9984' to 10115'. MW 10.2, Vis 41, Fl 12, Ph 7, Cl 70,000.
10/6/02	PO Drilling at 10430'. Drill Mesa Verde from 10164' to 10430' with bit #9, had 5 shows from 10174' to 10308'. MW 10.2, Vis 37, Fl 11.2, Cl 70,000, WOB 45,000#, RPM 60+, PP 1550.

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Daily Drilling Report

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8/22/02	MI Huffman construction. Start building road from 31-29 to new location. Start to level off location. Hit solid rock near grade on location.
8/23/02	Work on road to location-70% complete. Location leveled except for two rock humps which will need to be blasted.
8/24/02	Move in rock drill start drilling blast holes in pit area. Drill steel broke, wait on new steel.
8/25/02	Wait on new drill steel.
8/26/02	Wait on new drill steel.
8/27/02	Finished drilling 450 blast holes, load holes with prell and dynamite. Blast pit area and two rock humps on location.
8/28/02	Push rubble out of pit area with cat. Level and extend location to accommodate CAZA rig #61. Move in Rat hole rig.
8/29/02	Blast rock mound in pit area, finish pushing rubble out of pit. Blade and compact road. Expect to spud well with rat hole rig midday 8/29/02.
8/30/02	Drill Rathole and mousehole. Finish dressing off location. Install pit liner.
8/31/02	Spud well 8/30/02 with Bill Junior's rathole rig. Drill 17 ½" hole to 233'. Run 13 3/8" 48# H-40 casing to 225'. Cement with 220 sacks Class G at 15.6 PPG, 2% CaCl , and ¼# flocele. Circulated 14 bbls to surface. Start moving in CAZA #61.
9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
9/3/02	SDF Labor Day
9/4/02	Continue moving in CAZA rig #61
9/5/02	Rig up CAZA #61.
9/6/02	Rig up CAZA #61, expect to start drilling on 9/6/02.

9/7/02 Finish rigging up CAZA rig #61.

9/8/02 Drill rathole, PU BHA, WO tools, GIH with bit #1 a 11' Security XC33N, Tag at 178', prime pumps, cut drill line, replace wash pipe packing.

9/9/02 PO drilling at 283'.Repair draworks brakes. Begin drilling cement at 04:00 AM 9-9-02. Drill cement from 178' to 225', drill new hole from 225' to 284'. Mud is water.

9/10/02 PO drilling at 1120'. Drill and survey from 284' to 1120'. Surveys: ½ deg at 500', ½ deg at 1050'. WOB 25,000#, 20 RPM, PP 1050 psi. Mud is water

9/11/02 PO Drilling at 2226'. Drill and survey from 1120' to 2226', started getting Gilsonite returns and encountered deviation at approx 2000'. Reduced WOB and started fanning bit to get hole straight again. Surveys: ½ deg at 1402', ½ deg at 1635', 2 ½ deg at 2012', 2 ¾ deg at 2031'. WOB 45,000# - 30,000#, Mud is water, RPM 20+200, PP 1440 psi.

9/12/02 PO Drilling at 3004'. Drill and survey from 2226' to 3004' with bit #1. Surveys: 2 ½ deg at 2197', 2 deg at 2471', 1 ½ deg at 2292', 2 ½ deg at 2924'. MW 8.5ppg, Vis 26, WOB 40, RPM 20+200, PP 1350, GPM 520.

9/13/02 PO Repair swivel packing. Drill and survey from 3004' to 3601' with bit #1. NOTE: had gas kick at 2783'. Surveys: 1 ½ deg at 3172', 2 deg at 3333'. MW 9.0, Vis 41, WOB 45,000#, RPM 20 + 200, PP 1700. Mud slightly cut back due to water flow.

9/14/02 PO Drilling at 3920'. Drill to 3703', raise mud weight to kill influx, circulate out gas and water for 1 hour, POOH for new bit, GIH with bit#2 a security 11'XC33N. Drill and survey from 3703' to 3920'. Surveys: 1 ½ deg at 3633'. MW 9.2, Vis 41, WOB 50,000#, RPM 20+200, PP 1600, GPM 569, Penetration rate 13-20'/hr.

9/15/02 PO Drilling at 4375'. Drill and survey from 3920' to 4375' with bit #2. Surveys: ½ deg at 3896'. ½ deg at 4234'. MW 9.3, Vis 40, RPM 20+200, WOB 45,000#, PP 1650#, GPM 560.

9/16/02 PO Logging at 4558'. Drill and survey from 4375' to 4558' with bit #2. Short trip- no flow. POOH and RU Halliburton Loggers. Surveys: 1 ½ deg at 4296', 1 ¾ deg at 4497', MW 9.6, Vis 41, RPM 25+200, WOB 55,000#, PP 1750#, GPM 555.

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9/19/02 PO Drilling at 4872'. Finish testing BOP's and Kelly cock to 5000#, GIH with BHA, TOOH to change motor. GIH with 7 7/8" Security SEB 564. Drill cement and shoe and test formation to 640 psi. Drill from 4558' to 4872'. MW 8.5, Vis 28, FL 19, RPM 60, WOB 45,000#, PP 1200, GPM 358.

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9/21/02 PO Drilling at 6068'. Drill Green River and Wasatch formation with bit #3 from 5503' to 6068'. MW 8.8 DAPP, Vis 29, Ph 10, RPM 60+, WOB 45,000#, PP 1250.

9/22/02 PO Drilling at 6536'. Drill Wasatch formation with bit #3 to 6131', POOH and LD 31 jts DP and GIH with bit #4, a security 7 7/8" FM 2555. PU 32 new jts DP and drill to 6536'. MW 8.5 DAPP, Vis 26, PH 8, RPM 60+, WOB 15,000#, PP 1000, GPM 356. Bit #3 made 1573' in 55 hrs.

9/23/02 PO Tripping. Drill Wasatch from 6536' to 7602', pump slug, POOH and LD 20# DP. MW 8.6 DAPP, Vis 28, Ph 7.5, RPM 60+, WOB 10,000#, PP 1000.

9/24/02 PO Drilling at 7769'. LDDP for hardbanding, switch pipe around, GIH with BHA and drill Wasatch formation from 7602' to 7769'. MW 8.7, Vis 30, WOB 35,000#, RPM 60+, PP 1150.

9/25/02 PO Drilling at 8133'. Drill Wasatch formation from 7769' to 8133' with bit #5, a security XS-31. Bit #4, a diamond bit, was pulled green and made 1471' in 30 ½ hrs. MW 8.8, Vis 30, WOB 40,000#, RPM 40+, PP1200.

9/26/02 PO Drilling at 8507'. Drill Wasatch formation from 8133' to 8507'with bit #5. MW 9.1, Vis 30, WOB 46,000#, PP1250, RPM 40+.

9/27/02 PO Tripping for new bit. Drill Wasatch formation from 8507' to 8752' with bit #5, pump slug, POOH. MW 9.1, Vis 38, RPM 40+, PP 1300, Ph 8, Fl 20.

9/28/02 PO Drilling at 8950'. GIH with bit #6, a security XS-33, Drill Wasatch from 8752' to 8950'. MW 9.2, Vis 37, RPM 45+, WOB 48,000#, PP 1450, Bit #5 made 1150' in 78 hrs.

9/29/02 PO Drilling at 9217'. Drilled Wasatch formation from 8950' to 9217'. Made 268' in 24 hrs. MW 9.6, Vis 37, Ph 8, Cl 6100, WOB 47,000#, RPM 46+,

GASCO Energy Inc

Daily Completion Report
Federal #23-21-9-19
NESW, Sec. 21, T9S, R19E 43-047-34199
Uintah County, Utah

Federal 23-21-9-19
Daily Drilling Report

Distribution list: M. Decker, M. Erickson, R. Dean, H. Sharpe, J. Longwell, Phillips Petroleum, and Halliburton

8/21/02	Notify Ed Forsman, Vernal BLM of intent to begin location construction.
8/22/02	MI Huffman construction. Start building road from 31-29 to new location. Start to level off location. Hit solid rock near grade on location.
8/23/02	Work on road to location-70% complete. Location leveled except for two rock humps which will need to be blasted.
8/24/02	Move in rock drill start drilling blast holes in pit area. Drill steel broke, wait on new steel.
8/25/02	Wait on new drill steel.
8/26/02	Wait on new drill steel.
8/27/02	Finished drilling 450 blast holes, load holes with prell and dynamite. Blast pit area and two rock humps on location.
8/28/02	Push rubble out of pit area with cat. Level and extend location to accommodate CAZA rig #61. Move in Rat hole rig.
8/29/02	Blast rock mound in pit area, finish pushing rubble out of pit. Blade and compact road. Expect to spud well with rat hole rig midday 8/29/02.
8/30/02	Drill Rathole and mousehole. Finish dressing off location. Install pit liner.
8/31/02	Spud well 8/30/02 with Bill Junior's rathole rig. Drill 17 ½" hole to 233'. Run 13 3/8" 48# H-40 casing to 225'. Cement with 220 sacks Class G at 15.6 PPG, 2% CaCl , and ¼# flocele. Circulated 14 bbls to surface. Start moving in CAZA #61.
9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
9/3/02	SDF Labor Day
9/4/02	Continue moving in CAZA rig #61
9/5/02	Rig up CAZA #61.
9/6/02	Rig up CAZA #61, expect to start drilling on 9/6/02.

9/7/02 Finish rigging up CAZA rig #61.

9/8/02 Drill rathole, PU BHA, WO tools, GIH with bit #1 a 11' Security XC33N, Tag at 178', prime pumps, cut drill line, replace wash pipe packing.

9/9/02 PO drilling at 283'.Repair draworks brakes. Begin drilling cement at 04:00 AM 9-9-02. Drill cement from 178' to 225', drill new hole from 225' to 284'. Mud is water.

9/10/02 PO drilling at 1120'. Drill and survey from 284' to 1120'. Surveys: ½ deg at 500', ½ deg at 1050'. WOB 25,000#, 20 RPM, PP 1050 psi. Mud is water

9/11/02 PO Drilling at 2226'. Drill and survey from 1120' to 2226', started getting Gilsonite returns and encountered deviation at approx 2000'. Reduced WOB and started fanning bit to get hole straight again. Surveys: ½ deg at 1402', ½ deg at 1635', 2 ½ deg at 2012', 2 ¾ deg at 2031'. WOB 45,000# - 30,000#, Mud is water, RPM 20+200, PP 1440 psi.

9/12/02 PO Drilling at 3004'. Drill and survey from 2226' to 3004' with bit #1. Surveys: 2 ½ deg at 2197', 2 deg at 2471', 1 ½ deg at 2292', 2 ½ deg at 2924'. MW 8.5ppg, Vis 26, WOB 40, RPM 20+200, PP 1350, GPM 520.

9/13/02 PO Repair swivel packing. Drill and survey from 3004' to 3601' with bit #1. NOTE: had gas kick at 2783'. Surveys: 1 ½ deg at 3172', 2 deg at 3333'. MW 9.0, Vis 41, WOB 45,000#, RPM 20 + 200, PP 1700. Mud slightly cut back due to water flow.

9/14/02 PO Drilling at 3920'. Drill to 3703', raise mud weight to kill influx, circulate out gas and water for 1 hour, POOH for new bit, GIH with bit#2 a security 11'XC33N. Drill and survey from 3703' to 3920'. Surveys: 1 ½ deg at 3633'. MW 9.2, Vis 41, WOB 50,000#, RPM 20+200, PP 1600, GPM 569, Penetration rate 13-20'/hr.

9/15/02 PO Drilling at 4375'. Drill and survey from 3920' to 4375' with bit #2. Surveys: ½ deg at 3896'. ½ deg at 4234'. MW 9.3, Vis 40, RPM 20+200, WOB 45,000#, PP 1650#, GPM 560.

9/16/02 PO Logging at 4558'. Drill and survey from 4375' to 4558' with bit #2. Short trip- no flow. POOH and RU Halliburton Loggers. Surveys: 1 ½ deg at 4296', 1 ¾ deg at 4497', MW 9.6, Vis 41, RPM 25+200, WOB 55,000#, PP 1750#, GPM 555.

9/17/02 PO Laydown Hydril. Finish logging well, GIH to 3000' and circulate out gas. POOH, Run 106 jts of 8 5/8" 32# J-55 special drift ST&C casing to 4558'. RU Halliburton and cement casing with 560 sxs of Hi-Fill at 11.0 ppg, followed by 220 sxs of Class "G" mixed at 15.6 ppg. Performed two top jobs with 150 sxs of Class "G".

9/18/02 PO WO upper kelly cock. ND divertor, cut off wellhead and casing stub, weld on 8 5/8" wellhead and test same. NU 11" 5000# BOPS, test same, Upper kelly cock failed test BLM shut down rig until new one arrives.

9/19/02 PO Drilling at 4872'. Finish testing BOP's and Kelly cock to 5000#, GIH with BHA, TOOH to change motor. GIH with 7 7/8" Security SEB 564. Drill cement and shoe and test formation to 640 psi. Drill from 4558' to 4872'. MW 8.5, Vis 28, FL 19, RPM 60, WOB 45,000#, PP 1200, GPM 358.

9/20/02 PO Drilling at 5503'. Drill Green River from 4872' to 5503' with bit #3. Survey: 2 deg at 4960'. MW 8.7, Vis 26, Ph 11.5, RPM 50+, WOB 45,000#, PP 1250, GPM 343.

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9/23/02 PO Tripping. Drill Wasatch from 6536' to 7602', pump slug, POOH and LD 20# DP. MW 8.6 DAPP, Vis 28, Ph 7.5, RPM 60+, WOB 10,000#, PP 1000.

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9/27/02 PO Tripping for new bit. Drill Wasatch formation from 8507' to 8752' with bit #5, pump slug, POOH. MW 9.1, Vis 38, RPM 40+, PP 1300, Ph 8, Fl 20.

9/28/02 PO Drilling at 8950'. GIH with bit #6, a security XS-33, Drill Wasatch from 8752' to 8950'. MW 9.2, Vis 37, RPM 45+, WOB 48,000#, PP 1450,

GASCO Energy Inc

Daily Completion Report
Federal #23-21-9-19
NESW, Sec. 21, T9S, R19E
Uintah County, Utah

43-047-34199

Federal 23-21-9-19
Daily Drilling Report

Distribution list: M. Decker, M. Erickson, R. Dean, H. Sharpe, J. Longwell, Phillips Petroleum, and Halliburton

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8/25/02	Wait on new drill steel.
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9/27/02 PO Tripping for new bit. Drill Wasatch formation from 8507' to 8752' with bit #5, pump slug, POOH. MW 9.1, Vis 38, RPM 40+, PP 1300, Ph 8, Fl 20.

FORM 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT --" for such proposals
SUBMIT IN TRIPLICATE

5. **Lease Designation and Serial No.**
UTU-78433

6. **If Indian, Allottee or Tribe Name**

7. **If Unit or C.A., Agreement Designation**

1. **Type of Well**
Oil WELL [ ] Gas Well [X] Other [ ]

8. **Well Name and No.**
FEDERAL 23-21-9-19

2. **Name of Operator**
GASCO ENERGY, INC. dba PANNONIAN ENERGY INC.

3. **Address and Telephone No.**
14 INVERNESS DR. E., ENGLEWOOD, CO 80112 (303)483-0044

9. **API Well No.**
43-047-34199

4. **Location of Well (Footage, Sec., T., R., M., or Survey Description)**
2139' FSL 1991' FWL (NE/SW)
SECTION 21, T9S, R19E

10. **Field and Pool or Exploratory Area**
RIVERBEND

11. **County** *UINTAH* **State** *UTAH*

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] NOTICE OF INTENT	[ ] ABANDONMENT	[ ] CHANGE OF PLANS
[ ] SUBSEQUENT REPORT	[ ] RECOMPLETION	[ ] NEW CONSTRUCTION
[ ] FINAL ABANDONMENT NOTICE	[ ] PLUGGING BACK	[ ] NON-ROUTINE FRACTURING
	[ ] CASING REPAIR	[ ] WATER SHUT-OFF
	[ ] ALTERING CASING	[ ] CONVERSION TO INJECTION
	[X] OTHER: Requesting extension of permit to drill	

(Note: Report results of multiple completion on Well Completions or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work if well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

GASCO ENERGY, INC. dba PANNONIAN ENERGY INC. is requesting that the APD for the subject well be extended for one year

Approved by the
Utah Division of
Oil, Gas and Mining
Date: 09-03-02
By: [signature]

RECEIVED
AUG 29 2002
DIVISION OF
OIL, GAS AND MINING

DEPARTMENT TO OPERATOR
CHECK: 9-3-02
INITIALS: CHD

14. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE *Agent* DATE 8/27/2002

(This space for Federal or State office use)

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.: UTU-78433
6. If Indian, Allottee or Tribe Name: N/A
7. If Unit or CA/Agreement, Name and/or No.: N/A
8. Well Name and No.: **Federal 23-21-9-19**
9. API Well No.: **43-047-34199**
10. Field and Pool, or Exploratory Area: Riverbend
11. County or Parish, State: Uintah County, Utah

1. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other
2. Name of Operator: ***Pannonian Energy, Inc. (a wholly-owned subsidiary of GASCO ENERGY)***
3a. Address: *14 Inverness Drive E., Ste. H--236, Englewood, CO 80112*
3b. Phone No. *(include area code)*: *303-483-0044*
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*: *2139' FSL & 1991' FWL (NESW) Section 21, T09S-R19E*

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Spud Well
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

Pannonian Energy has spud the Federal 23-21-9-19 well on August 30, 2002 using Bill Junior's Rathole Rig. CAZA rig #61 is being moved onto location and is anticipated to resume drilling the well on or about Sept. 5, 2002.

14. I hereby certify that the foregoing is true and correct

Name *(Printed/Typed)*: John Longwell — Title: Operations Manager

Signature: John Longwell — Date: September 4, 2002

THIS SPACE FOR FEDERAL OR STATE USE

Approved by — Title — Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. — Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED
SEP 06 2002
DIVISION OF
OIL, GAS AND MINING

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.
UTU-78433

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA/Agreement, Name and/or No.
N/A

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
Federal 23-21-9-19

2. Name of Operator
Pannonian Energy, Inc. (a wholly-owned subsidiary of GASCO ENERGY)

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43-047-34199

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3b. Phone No. *(include area code)*
303-483-0044

10. Field and Pool, or Exploratory Area
Riverbend

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
2139' FSL & 1991' FWL (NESW)
Section 21, T09S-R19E

11. County or Parish, State
Uintah County, Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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Pannonian Energy would like to amend the drilling plan to show an 11" hole being drilled to 4650', and 8 5/8" 32# special drift J-55 ST&C casing being run to 4650'. The surface casing will be cemented with a lead slurry of 560 sxs of Hi-Fill cement mixed at 11ppg, yield =3.83 ft3/sk, followed by 200 sxs of premium cement mixed at 15.8 ppg, yield =1.16, with 2% CaCl.

14. I hereby certify that the foregoing is true and correct

Name *(Printed/Typed)* John Longwell	Title Operations Manager
Signature	Date September 10, 2002

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 10/04/2002

By: [signature]

Federal Approval Of This
Action Is Necessary

10-7-02
CHD

RECEIVED

SEP 13 2002

DIVISION OF
OIL, GAS AND MINING

GASCO Energy Inc

Daily Completion Report
Federal #23-21-9-19
NESW, Sec. 21, T9S, R19E
Uintah County, Utah

43-047-34199

Federal 23-21-9-19
Daily Drilling Report

Distribution list: M. Decker, M. Erickson, R. Dean, H. Sharpe, J. Longwell, Phillips Petroleum, and Halliburton

8/21/02	Notify Ed Forsman, Vernal BLM of intent to begin location construction.
8/22/02	MI Huffman construction. Start building road from 31-29 to new location. Start to level off location. Hit solid rock near grade on location.
8/23/02	Work on road to location-70% complete. Location leveled except for two rock humps which will need to be blasted.
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8/25/02	Wait on new drill steel.
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8/27/02	Finished drilling 450 blast holes, load holes with prell and dynamite. Blast pit area and two rock humps on location.
8/28/02	Push rubble out of pit area with cat. Level and extend location to accommodate CAZA rig #61. Move in Rat hole rig.
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8/30/02	Drill Rathole and mousehole. Finish dressing off location. Install pit liner.
8/31/02	Spud well 8/30/02 with Bill Junior's rathole rig. Drill 17 ½" hole to 233'. Run 13 3/8" 48# H-40 casing to 225'. Cement with 220 sacks Class G at 15.6 PPG, 2% CaCl , and ¼# flocele. Circulated 14 bbls to surface. Start moving in CAZA #61.
9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
9/3/02	SDF Labor Day
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9/5/02	Rig up CAZA #61.
9/6/02	Rig up CAZA #61, expect to start drilling on 9/6/02.

9/7/02 Finish rigging up CAZA rig #61.

9/8/02 Drill rathole, PU BHA, WO tools, GIH with bit #1 a 11' Security XC33N, Tag at 178', prime pumps, cut drill line, replace wash pipe packing.

9/9/02 PO drilling at 283'.Repair draworks brakes. Begin drilling cement at 04:00 AM 9-9-02. Drill cement from 178' to 225', drill new hole from 225' to 284'. Mud is water.

9/10/02 PO drilling at 1120'. Drill and survey from 284' to 1120'. Surveys: ½ deg at 500', ½ deg at 1050'. WOB 25,000#, 20 RPM, PP 1050 psi. Mud is water

9/11/02 PO Drilling at 2226'. Drill and survey from 1120' to 2226', started getting Gilsonite returns and encountered deviation at approx 2000'. Reduced WOB and started fanning bit to get hole straight again. Surveys: ½ deg at 1402', ½ deg at 1635', 2 ½ deg at 2012', 2 ¾ deg at 2031'. WOB 45,000# - 30,000#, Mud is water, RPM 20+200, PP 1440 psi.

9/12/02 PO Drilling at 3004'. Drill and survey from 2226' to 3004' with bit #1. Surveys: 2 ½ deg at 2197', 2 deg at 2471', 1 ½ deg at 2292', 2 ½ deg at 2924'. MW 8.5ppg, Vis 26, WOB 40, RPM 20+200, PP 1350, GPM 520.

9/13/02 PO Repair swivel packing. Drill and survey from 3004' to 3601' with bit #1. NOTE: had gas kick at 2783'. Surveys: 1 ½ deg at 3172', 2 deg at 3333'. MW 9.0, Vis 41, WOB 45,000#, RPM 20 + 200, PP 1700. Mud slightly cut back due to water flow.

9/14/02 PO Drilling at 3920'. Drill to 3703', raise mud weight to kill influx, circulate out gas and water for 1 hour, POOH for new bit, GIH with bit#2 a security 11'XC33N. Drill and survey from 3703' to 3920'. Surveys: 1 ½ deg at 3633'. MW 9.2, Vis 41, WOB 50,000#, RPM 20+200, PP 1600, GPM 569, Penetration rate 13-20'/hr.

9/15/02 PO Drilling at 4375'. Drill and survey from 3920' to 4375' with bit #2. Surveys: ½ deg at 3896'. ½ deg at 4234'. MW 9.3, Vis 40, RPM 20+200, WOB 45,000#, PP 1650#, GPM 560.

9/16/02 PO Logging at 4558'. Drill and survey from 4375' to 4558' with bit #2. Short trip- no flow. POOH and RU Halliburton Loggers. Surveys: 1 ½ deg at 4296', 1 ¾ deg at 4497', MW 9.6, Vis 41, RPM 25+200, WOB 55,000#, PP 1750#, GPM 555.

9/17/02 PO Laydown Hydril. Finish logging well, GIH to 3000' and circulate out gas. POOH, Run 106 jts of 8 5/8" 32# J-55 special drift ST&C casing to 4558'. RU Halliburton and cement casing with 560 sxs of Hi-Fill at 11.0 ppg, followed by 220 sxs of Class "G" mixed at 15.6 ppg. Performed two top jobs with 150 sxs of Class "G".

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9/20/02 PO Drilling at 5503'. Drill Green River from 4872' to 5503' with bit #3. Survey: 2 deg at 4960'. MW 8.7, Vis 26, Ph 11.5, RPM 50+, WOB 45,000#, PP 1250, GPM 343.

GASCO Energy Inc

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Federal #42-29-9-19 #1
NESW, Sec. 29, T9S, R19E
Uintah County, Utah

Federal 23-21-9-19
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T09S R19E SEC-21

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9/21/02 PO Drilling at 6068'. Drill Green River and Wasatch formation with bit #3 from 5503' to 6068'. MW 8.8 DAPP, Vis 29, Ph 10, RPM 60+, WOB 45,000#, PP 1250.

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9/23/02 PO Tripping. Drill Wasatch from 6536' to 7602', pump slug, POOH and LD 20# DP. MW 8.6 DAPP, Vis 28, Ph 7.5, RPM 60+, WOB 10,000#, PP 1000.

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9/25/02 PO Drilling at 8133'. Drill Wasatch formation from 7769' to 8133' with bit #5, a security XS-31. Bit #4, a diamond bit, was pulled green and made 1471' in 30 ½ hrs. MW 8.8, Vis 30, WOB 40,000#, RPM 40+, PP1200.

9/26/02 PO Drilling at 8507'. Drill Wasatch formation from 8133' to 8507'with bit #5. MW 9.1, Vis 30, WOB 46,000#, PP1250, RPM 40+.

9/27/02 PO Tripping for new bit. Drill Wasatch formation from 8507' to 8752' with bit #5, pump slug, POOH. MW 9.1, Vis 38, RPM 40+, PP 1300, Ph 8, Fl 20.

9/28/02 PO Drilling at 8950'. GIH with bit #6, a security XS-33, Drill Wasatch from 8752' to 8950'. MW 9.2, Vis 37, RPM 45+, WOB 48,000#, PP 1450, Bit #5 made 1150' in 78 hrs.

9/29/02 PO Drilling at 9217'. Drilled Wasatch formation from 8950' to 9217'. Made 268' in 24 hrs. MW 9.6, Vis 37, Ph 8, Cl 6100, WOB 47,000#, RPM 46+,

9/30/02 PO Drilling at 9304'. Drill to 9236 with bit #6. POOH for bit #7, a Security XS-44. Drill Mesa Verde from 9236' to 9304'. Made 87' in last 24 hrs. Bit #6 made 484' in 43 hrs. MW 9.9, Vis 38, Fl 13.6, Ph 8.0, Cl 45,000, WOB 48,000#, RPM 46+, PP 1400.

10/1/02 PO Drilling at 9503'. Drill Mesa Verde from 9304' to 9503'. Made 199' in 24 hrs with bit #7. MW 9.8, Vis 39, Fl 16, Cl 55,000, WOB 45,000#, RPM 48+, PP 1400.

10/2/02 PO Drilling at 9706'. Drill Mesa Verde from 9499' to 9706' with bit #7. MW 9.8, Vis 38, Fl 12, Ph 7, WOB 45,000#, RPM 60, PP 1450.

10/3/02 PO Drilling at 9842'. Drill Mesa Verde from 9706' to 9739' POOH for new bit, change motor, test BOP's, and GIH with bit #8, a security XS-44. GIH and drill from 9739' to 9842'. Bit #7 made 503' in 59 ½ hrs. Mw 9.8, Vis 36, Fl 12, Ph 7, WOB 45,000#, RPM 45+

10/4/02 PO Tripping for new bit. Drill Mesa Verde from 9842' to 9970' with bit #8, pump pill, and POOH, GIH with bit #9, a security XS-44. Bit #8 made 231' in 23 hrs and had a bearing failure. MW 10, Vis 40, FL 12, Ph 7.

10/5/02 PO Drilling at 10164'. Drill Mesa Verde from 9970' to 10164' with bit #9, had 3 shows from 9984' to 10115'. MW 10.2, Vis 41, Fl 12, Ph 7, Cl 70,000.

10/6/02 PO Drilling at 10430'. Drill Mesa Verde from 10164' to 10430' with bit #9, had 5 shows from 10174' to 10308'. MW 10.2, Vis 37, Fl 11.2, Cl 70,000, WOB 45,000#, RPM 60+, PP 1550.

10/7/02 PO Drilling at 10700'. Drill Mesa Verde from 10430' to 10700' with bit #9, had 2'-10' flare burning most of the day. Drilled 3 good shows from 10426'-10558'.BGG 850-2500, MW 10.2, Vis 40, Fl 10.6, Ph 7, Cl 70,000, RPM 60+, WOB 45,000#, PP 1600, GPM 341,

10/8/02 PO Drilling at 10788'. Drill Mesa Verde with bit #9 from 10,700' to 10753', pump pill, survey 2 deg at 10,700', POOH and change mud motor and bit. Replace air compressor and GIH with bit #10 , a Security XS-48. Drill from 10,753 to 10786'. Mw 10.2, Vis 42, Fl 9.6, Ph 7, Cl 70,000, WOB 45,000#, RPM 25+, SPM 106, PP 1600. Show #37, 10735-10750' 2520 units, BGG 350-1200 units.

10/9/02 PO Drilling at 10984'. Drill Mesa Verde with bit #10 from 10788' to 10984'. MW 10.2, Vis 40, Fl 9.6, Ph 7, Cl 55,000, WOB 45,000#, RPM 45+, SPM 98, PP 1600. BGG 450-500 units, no shows last 24 hrs.

10/10/02 PO Drilling at 11175'. Drill Mesa Verde with bit #10 from 10984' to 11175'. MW 10.4, Vis 44, Fl 10.2, Ph 7, Cl 57,000 WOB 45,000#, RPM 45+, PP 1600, BGG 600-1500 units, Show #38 11010'-11048' 1450 units, show #39 11116'-11128' 1250 units.

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9/8/02 Drill rathole, PU BHA, WO tools, GIH with bit #1 a 11' Security XC33N, Tag at 178', prime pumps, cut drill line, replace wash pipe packing.

9/9/02 PO drilling at 283'.Repair draworks brakes. Begin drilling cement at 04:00 AM 9-9-02. Drill cement from 178' to 225', drill new hole from 225' to 284'. Mud is water.

9/10/02 PO drilling at 1120'. Drill and survey from 284' to 1120'. Surveys: ½ deg at 500', ½ deg at 1050'. WOB 25,000#, 20 RPM, PP 1050 psi. Mud is water

9/11/02 PO Drilling at 2226'. Drill and survey from 1120' to 2226', started getting Gilsonite returns and encountered deviation at approx 2000'. Reduced WOB and started fanning bit to get hole straight again. Surveys: ½ deg at 1402', ½ deg at 1635', 2 ½ deg at 2012', 2 ¾ deg at 2031'. WOB 45,000# - 30,000#, Mud is water, RPM 20+200, PP 1440 psi.

9/12/02 PO Drilling at 3004'. Drill and survey from 2226' to 3004' with bit #1. Surveys: 2 ½ deg at 2197', 2 deg at 2471', 1 ½ deg at 2292', 2 ½ deg at 2924'. MW 8.5ppg, Vis 26, WOB 40, RPM 20+200, PP 1350, GPM 520.

9/13/02 PO Repair swivel packing. Drill and survey from 3004' to 3601' with bit #1. NOTE: had gas kick at 2783'. Surveys: 1 ½ deg at 3172', 2 deg at 3333'. MW 9.0, Vis 41, WOB 45,000#, RPM 20 + 200, PP 1700. Mud slightly cut back due to water flow.

9/14/02 PO Drilling at 3920'. Drill to 3703', raise mud weight to kill influx, circulate out gas and water for 1 hour, POOH for new bit, GIH with bit#2 a security 11'XC33N. Drill and survey from 3703' to 3920'. Surveys: 1 ½ deg at 3633'. MW 9.2, Vis 41, WOB 50,000#, RPM 20+200, PP 1600, GPM 569, Penetration rate 13-20'/hr.

9/15/02 PO Drilling at 4375'. Drill and survey from 3920' to 4375' with bit #2. Surveys: ½ deg at 3896'. ½ deg at 4234'. MW 9.3, Vis 40, RPM 20+200, WOB 45,000#, PP 1650#, GPM 560.

9/16/02 PO Logging at 4558'. Drill and survey from 4375' to 4558' with bit #2. Short trip- no flow. POOH and RU Halliburton Loggers. Surveys: 1 ½ deg at 4296', 1 ¾ deg at 4497', MW 9.6, Vis 41, RPM 25+200, WOB 55,000#, PP 1750#, GPM 555.

9/17/02 PO Laydown Hydril. Finish logging well, GIH to 3000' and circulate out gas. POOH, Run 106 jts of 8 5/8" 32# J-55 special drift ST&C casing to 4558'. RU Halliburton and cement casing with 560 sxs of Hi-Fill at 11.0 ppg, followed by 220 sxs of Class "G" mixed at 15.6 ppg. Performed two top jobs with 150 sxs of Class "G".

9/18/02 PO WO upper kelly cock. ND divertor, cut off wellhead and casing stub, weld on 8 5/8" wellhead and test same. NU 11" 5000# BOPS, test same, Upper kelly cock failed test BLM shut down rig until new one arrives.

9/19/02 PO Drilling at 4872'. Finish testing BOP's and Kelly cock to 5000#, GIH with BHA, TOOH to change motor. GIH with 7 7/8" Security SEB 564. Drill cement and shoe and test formation to 640 psi. Drill from 4558' to 4872'. MW 8.5, Vis 28, FL 19, RPM 60, WOB 45,000#, PP 1200, GPM 358.

9/20/02 PO Drilling at 5503'. Drill Green River from 4872' to 5503' with bit #3. Survey: 2 deg at 4960'. MW 8.7, Vis 26, Ph 11.5, RPM 50+, WOB 45,000#, PP 1250, GPM 343.

9/21/02 PO Drilling at 6068'. Drill Green River and Wasatch formation with bit #3 from 5503' to 6068'. MW 8.8 DAPP, Vis 29, Ph 10, RPM 60+, WOB 45,000#, PP 1250.

9/22/02 PO Drilling at 6536'. Drill Wasatch formation with bit #3 to 6131', POOH and LD 31 jts DP and GIH with bit #4, a security 7 7/8" FM 2555. PU 32 new jts DP and drill to 6536'. MW 8.5 DAPP, Vis 26, PH 8, RPM 60+, WOB 15,000#, PP 1000, GPM 356. Bit #3 made 1573' in 55 hrs.

9/23/02 PO Tripping. Drill Wasatch from 6536' to 7602', pump slug, POOH and LD 20# DP. MW 8.6 DAPP, Vis 28, Ph 7.5, RPM 60+, WOB 10,000#, PP 1000.

9/24/02 PO Drilling at 7769'. LDDP for hardbanding, switch pipe around, GIH with BHA and drill Wasatch formation from 7602' to 7769'. MW 8.7, Vis 30, WOB 35,000#, RPM 60+, PP 1150.

9/25/02 PO Drilling at 8133'. Drill Wasatch formation from 7769' to 8133' with bit #5, a security XS-31. Bit #4, a diamond bit, was pulled green and made 1471' in 30 ½ hrs. MW 8.8, Vis 30, WOB 40,000#, RPM 40+, PP1200.

9/26/02 PO Drilling at 8507'. Drill Wasatch formation from 8133' to 8507'with bit #5. MW 9.1, Vis 30, WOB 46,000#, PP1250, RPM 40+.

9/27/02 PO Tripping for new bit. Drill Wasatch formation from 8507' to 8752' with bit #5, pump slug, POOH. MW 9.1, Vis 38, RPM 40+, PP 1300, Ph 8, Fl 20.

9/28/02 PO Drilling at 8950'. GIH with bit #6, a security XS-33, Drill Wasatch from 8752' to 8950'. MW 9.2, Vis 37, RPM 45+, WOB 48,000#, PP 1450, Bit #5 made 1150' in 78 hrs.

9/29/02 PO Drilling at 9217'. Drilled Wasatch formation from 8950' to 9217'. Made 268' in 24 hrs. MW 9.6, Vis 37, Ph 8, Cl 6100, WOB 47,000#, RPM 46+,

9/30/02 PO Drilling at 9304'. Drill to 9236 with bit #6. POOH for bit #7, a Security XS-44. Drill Mesa Verde from 9236' to 9304'. Made 87' in last 24 hrs. Bit #6 made 484' in 43 hrs. MW 9.9, Vis 38, Fl 13.6, Ph 8.0, Cl 45,000, WOB 48,000#, RPM 46+, PP 1400.

10/1/02 PO Drilling at 9503'. Drill Mesa Verde from 9304' to 9503'. Made 199' in 24 hrs with bit #7. MW 9.8, Vis 39, Fl 16, Cl 55,000, WOB 45,000#, RPM 48+, PP 1400.

GASCO Energy Inc

Daily Completion Report
Federal #23-21-9-19
NESW, Sec. 21, T9S, R19E
Uintah County, Utah

43-047-34199

Federal 23-21-9-19
Daily Drilling Report

Distribution list: M. Decker, M. Erickson, R. Dean, H. Sharpe, J. Longwell, Phillips Petroleum, and Halliburton

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8/22/02	MI Huffman construction. Start building road from 31-29 to new location. Start to level off location. Hit solid rock near grade on location.
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8/24/02	Move in rock drill start drilling blast holes in pit area. Drill steel broke, wait on new steel.
8/25/02	Wait on new drill steel.
8/26/02	Wait on new drill steel.
8/27/02	Finished drilling 450 blast holes, load holes with prell and dynamite. Blast pit area and two rock humps on location.
8/28/02	Push rubble out of pit area with cat. Level and extend location to accommodate CAZA rig #61. Move in Rat hole rig.
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8/30/02	Drill Rathole and mousehole. Finish dressing off location. Install pit liner.
8/31/02	Spud well 8/30/02 with Bill Junior's rathole rig. Drill 17 ½" hole to 233'. Run 13 3/8" 48# H-40 casing to 225'. Cement with 220 sacks Class G at 15.6 PPG, 2% CaCl , and ¼# flocele. Circulated 14 bbls to surface. Start moving in CAZA #61.
9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
9/3/02	SDF Labor Day
9/4/02	Continue moving in CAZA rig #61
9/5/02	Rig up CAZA #61.
9/6/02	Rig up CAZA #61, expect to start drilling on 9/6/02.

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9/27/02 PO Tripping for new bit. Drill Wasatch formation from 8507' to 8752' with bit #5, pump slug, POOH. MW 9.1, Vis 38, RPM 40+, PP 1300, Ph 8, Fl 20.

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10/1/02 PO Drilling at 9503'. Drill Mesa Verde from 9304' to 9503'. Made 199' in 24 hrs with bit #7. MW 9.8, Vis 39, Fl 16, Cl 55,000, WOB 45,000#, RPM 48+, PP 1400.

10/2/02 PO Drilling at 9706'. Drill Mesa Verde from 9499' to 9706' with bit #7. MW 9.8, Vis 38, Fl 12, Ph 7, WOB 45,000#, RPM 60, PP 1450.

10/3/02 PO Drilling at 9842'. Drill Mesa Verde from 9706' to 9739' POOH for new bit, change motor, test BOP's, and GIH with bit #8, a security XS-44. GIH and drill from 9739' to 9842'. Bit #7 made 503' in 59 ½ hrs. Mw 9.8, Vis 36, Fl 12, Ph 7, WOB 45,000#, RPM 45+

10/4/02 PO Tripping for new bit. Drill Mesa Verde from 9842' to 9970' with bit #8, pump pill, and POOH, GIH with bit #9, a security XS-44. Bit #8 made 231' in 23 hrs and had a bearing failure. MW 10, Vis 40, FL 12, Ph 7.

10/5/02 PO Drilling at 10164'. Drill Mesa Verde from 9970' to 10164' with bit #9, had 3 shows from 9984' to 10115'. MW 10.2, Vis 41, Fl 12, Ph 7, Cl 70,000.

10/6/02 PO Drilling at 10430'. Drill Mesa Verde from 10164' to 10430' with bit #9, had 5 shows from 10174' to 10308'. MW 10.2, Vis 37, Fl 11.2, Cl 70,000, WOB 45,000#, RPM 60+, PP 1550.

10/7/02 PO Drilling at 10700'. Drill Mesa Verde from 10430' to 10700' with bit #9, had 2'-10' flare burning most of the day. Drilled 3 good shows from 10426'-10558'.BGG 850-2500, MW 10.2, Vis 40, Fl 10.6, Ph 7, Cl 70,000, RPM 60+, WOB 45,000#, PP 1600, GPM 341,

GASCO Energy Inc

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43-049-34199

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Daily Drilling Report

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8/25/02	Wait on new drill steel.
8/26/02	Wait on new drill steel.
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8/30/02	Drill Rathole and mousehole. Finish dressing off location. Install pit liner.
8/31/02	Spud well 8/30/02 with Bill Junior's rathole rig. Drill 17 ½" hole to 233'. Run 13 3/8" 48# H-40 casing to 225'. Cement with 220 sacks Class G at 15.6 PPG, 2% CaCl , and ¼# flocele. Circulated 14 bbls to surface. Start moving in CAZA #61.
9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
9/3/02	SDF Labor Day
9/4/02	Continue moving in CAZA rig #61
9/5/02	Rig up CAZA #61.
9/6/02	Rig up CAZA #61, expect to start drilling on 9/6/02.

9/7/02 Finish rigging up CAZA rig #61.

9/8/02 Drill rathole, PU BHA, WO tools, GIH with bit #1 a 11' Security XC33N, Tag at 178', prime pumps, cut drill line, replace wash pipe packing.

9/9/02 Drilling at 283'. Remainder of report to follow.

GASCO Energy Inc

~~Daily Completion Report~~
~~Federal #42-29-9-19 #1~~
NESW, Sec. 29, T9S, R19E
~~Uintah County, Utah~~

Federal 23-21-9-19
Daily Drilling Report

T 09S R 19E S-21
43-047-34199

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8/25/02	Wait on new drill steel.
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8/27/02	Finished drilling 450 blast holes, load holes with prell and dynamite. Blast pit area and two rock humps on location.
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9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
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Uintah County, Utah

9/7/02 Finish rigging up CAZA rig #61.

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9/9/02 PO drilling at 283'.Repair draworks brakes. Begin drilling cement at 04:00 AM 9-9-02. Drill cement from 178' to 225', drill new hole from 225' to 284'. Mud is water.

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~~1-CHD~~
~~2-Ltwp~~
3-file

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8/28/02	Push rubble out of pit area with cat. Level and extend location to accommodate CAZA rig #61. Move in Rat hole rig.
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9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
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GASCO Energy Inc

Daily Completion Report
Federal #23-21-9-19
NESW, Sec. 21, T9S, R19E
Uintah County, Utah

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9/8/02 Drill rathole, PU BHA, WO tools, GIH with bit #1 a 11' Security XC33N, Tag at 178', prime pumps, cut drill line, replace wash pipe packing.

9/9/02 PO drilling at 283'.Repair draworks brakes. Begin drilling cement at 04:00 AM 9-9-02. Drill cement from 178' to 225', drill new hole from 225' to 284'. Mud is water.

9/10/02 PO drilling at 1120'. Drill and survey from 284' to 1120'. Surveys: ½ deg at 500', ½ deg at 1050'. WOB 25,000#, 20 RPM, PP 1050 psi. Mud is water

9/11/02 PO Drilling at 2226'. Drill and survey from 1120' to 2226', started getting Gilsonite returns and encountered deviation at approx 2000'. Reduced WOB and started fanning bit to get hole straight again. Surveys: ½ deg at 1635', 2 ½ deg at 2012', 2 ¾ deg at 2031'. WOB 45,000# - 30,000#, Mud is water, RPM 20+200, PP 1440 psi.

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GASCO Energy Inc

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9/13/02 PO Repair swivel packing. Drill and survey from 3004' to 3601' with bit #1. NOTE: had gas kick at 2783'. Surveys: 1 ½ deg at 3172', 2 deg at 3333'. MW 9.0, Vis 41, WOB 45,000#, RPM 20 + 200, PP 1700. Mud slightly cut back due to water flow.

9/14/02 PO Drilling at 3920'. Drill to 3703', raise mud weight to kill influx, circulate out gas and water for 1 hour, POOH for new bit, GIH with bit#2 a security 11'XC33N. Drill and survey from 3703' to 3920'. Surveys: 1 ½ deg at 3633'. MW 9.2, Vis 41, WOB 50,000#, RPM 20+200, PP 1600, GPM 569, Penetration rate 13-20'/hr.

9/15/02 PO Drilling at 4375'. Drill and survey from 3920' to 4375' with bit #2. Surveys: ½ deg at 3896'. ½ deg at 4234'. MW 9.3, Vis 40, RPM 20+200, WOB 45,000#, PP 1650#, GPM 560.

9/16/02 PO Logging at 4558'. Drill and survey from 4375' to 4558' with bit #2. Short trip- no flow. POOH and RU Halliburton Loggers. Surveys: 1 ½ deg at 4296', 1 ¾ deg at 4497', MW 9.6, Vis 41, RPM 25+200, WOB 55,000#, PP 1750#, GPM 555.

GASCO Energy Inc

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9/17/02 PO Laydown Hydril. Finish logging well, GIH to 3000' and circulate out gas. POOH, Run 106 jts of 8 5/8" 32# J-55 special drift ST&C casing to 4558'. RU Halliburton and cement casing with 560 sxs of Hi-Fill at 11.0 ppg, followed by 220 sxs of Class "G" mixed at 15.6 ppg. Performed two top jobs with 150 sxs of Class "G".

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9/18/02 PO WO upper kelly cock. ND divertor, cut off wellhead and casing stub, weld on 8 5/8" wellhead and test same. NU 11" 5000# BOPS, test same, Upper kelly cock failed test BLM shut down rig until new one arrives.

9/19/02 PO Drilling at 4872'. Finish testing BOP's and Kelly cock to 5000#, GIH with BHA, TOOH to change motor. GIH with 7 7/8" Security SEB 564. Drill cement and shoe and test formation to 640 psi. Drill from 4558' to 4872'. MW 8.5, Vis 28, FL 19, RPM 60, WOB 45,000#, PP 1200, GPM 358.

9/20/02 PO Drilling at 5503'. Drill Green River from 4872' to 5503' with bit #3. Survey: 2 deg at 4960'. MW 8.7, Vis 26, Ph 11.5, RPM 50+, WOB 45,000#, PP 1250, GPM 343.

9/21/02 PO Drilling at 6068'. Drill Green River and Wasatch formation with bit #3 from 5503' to 6068'. MW 8.8 DAPP, Vis 29, Ph 10, RPM 60+, WOB 45,000#, PP 1250.

9/22/02 PO Drilling at 6536'. Drill Wasatch formation with bit #3 to 6131', POOH and LD 31 jts DP and GIH with bit #4, a security 7 7/8" FM 2555. PU 32 new jts DP and drill to 6536'. MW 8.5 DAPP, Vis 26, PH 8, RPM 60+, WOB 15,000#, PP 1000, GPM 356. Bit #3 made 1573' in 55 hrs.

9/23/02 PO Tripping. Drill Wasatch from 6536' to 7602', pump slug, POOH and LD 20# DP. MW 8.6 DAPP, Vis 28, Ph 7.5, RPM 60+, WOB 10,000#, PP 1000.

9/24/02 PO Drilling at 7769'. LDDP for hardbanding, switch pipe around, GIH with BHA and drill Wasatch formation from 7602' to 7769'. MW 8.7, Vis 30, WOB 35,000#, RPM 60+, PP 1150.

9/25/02 PO Drilling at 8133'. Drill Wasatch formation from 7769' to 8133' with bit #5, a security XS-31. Bit #4, a diamond bit, was pulled green and made 1471' in 30 ½ hrs. MW 8.8, Vis 30, WOB 40,000#, RPM 40+, PP1200.

9/26/02 PO Drilling at 8507'. Drill Wasatch formation from 8133' to 8507'with bit #5. MW 9.1, Vis 30, WOB 46,000#, PP1250, RPM 40+.

9/27/02 PO Tripping for new bit. Drill Wasatch formation from 8507' to 8752' with bit #5, pump slug, POOH. MW 9.1, Vis 38, RPM 40+, PP 1300, Ph 8, Fl 20.

9/28/02 PO Drilling at 8950'. GIH with bit #6, a security XS-33, Drill Wasatch from 8752' to 8950'. MW 9.2, Vis 37, RPM 45+, WOB 48,000#, PP 1450, Bit #5 made 1150' in 78 hrs.

9/29/02 PO Drilling at 9217'. Drilled Wasatch formation from 8950' to 9217'. Made 268' in 24 hrs. MW 9.6, Vis 37, Ph 8, Cl 6100, WOB 47,000#, RPM 46+,

9/30/02 PO Drilling at 9304'. Drill to 9236 with bit #6. POOH for bit #7, a Security XS-44. Drill Mesa Verde from 9236' to 9304'. Made 87' in last 24 hrs. Bit #6 made 484' in 43 hrs. MW 9.9, Vis 38, Fl 13.6, Ph 8.0, Cl 45,000, WOB 48,000#, RPM 46+, PP 1400.

10/1/02 PO Drilling at 9503'. Drill Mesa Verde from 9304' to 9503'. Made 199' in 24 hrs with bit #7. MW 9.8, Vis 39, Fl 16, Cl 55,000, WOB 45,000#, RPM 48+, PP 1400.

10/2/02 PO Drilling at 9706'. Drill Mesa Verde from 9499' to 9706' with bit #7. MW 9.8, Vis 38, Fl 12, Ph 7, WOB 45,000#, RPM 60, PP 1450.

10/3/02 PO Drilling at 9842'. Drill Mesa Verde from 9706' to 9739' POOH for new bit, change motor, test BOP's, and GIH with bit #8, a security XS-44. GIH and drill from 9739' to 9842'. Bit #7 made 503' in 59 ½ hrs. Mw 9.8, Vis 36, Fl 12, Ph 7, WOB 45,000#, RPM 45+

10/4/02 PO Tripping for new bit. Drill Mesa Verde from 9842' to 9970' with bit #8, pump pill, and POOH, GIH with bit #9, a security XS-44. Bit #8 made 231' in 23 hrs and had a bearing failure. MW 10, Vis 40, FL 12, Ph 7.

10/5/02 PO Drilling at 10164'. Drill Mesa Verde from 9970' to 10164' with bit #9, had 3 shows from 9984' to 10115'. MW 10.2, Vis 41, Fl 12, Ph 7, Cl 70,000.

10/6/02 PO Drilling at 10430'. Drill Mesa Verde from 10164' to 10430' with bit #9, had 5 shows from 10174' to 10308'. MW 10.2, Vis 37, Fl 11.2, Cl 70,000, WOB 45,000#, RPM 60+, PP 1550.

10/7/02 PO Drilling at 10700'. Drill Mesa Verde from 10430' to 10700' with bit #9, had 2'-10' flare burning most of the day. Drilled 3 good shows from 10426'-10558'.BGG 850-2500, MW 10.2, Vis 40, Fl 10.6, Ph 7, Cl 70,000, RPM 60+, WOB 45,000#, PP 1600, GPM 341,

10/8/02 PO Drilling at 10788'. Drill Mesa Verde with bit #9 from 10,700' to 10753', pump pill, survey 2 deg at 10,700', POOH and change mud motor and bit. Replace air compressor and GIH with bit #10 , a Security XS-48. Drill from 10,753 to 10786'. Mw 10.2, Vis 42, Fl 9.6, Ph 7, Cl 70,000, WOB 45,000#, RPM 25+, SPM 106, PP 1600. Show #37, 10735-10750' 2520 units, BGG 350-1200 units.

10/9/02 PO Drilling at 10984'. Drill Mesa Verde with bit #10 from 10788' to 10984'. MW 10.2, Vis 40, Fl 9.6, Ph 7, Cl 55,000, WOB 45,000#, RPM 45+, SPM 98, PP 1600. BGG 450-500 units, no shows last 24 hrs.

10/10/02 PO Drilling at 11175'. Drill Mesa Verde with bit #10 from 10984' to 11175'. MW 10.4, Vis 44, Fl 10.2, Ph 7, Cl 57,000 WOB 45,000#, RPM 45+, PP 1600, BGG 600-1500 units, Show #38 11010'-11048' 1450 units, show #39 11116'-11128' 1250 units.

10/11/02 PO Tripping for new bit. Drilled Mesa Verde from 11175' to 11315' with bit #10, pump pill, drop survey, POOH for new bit. Mw 10.9, Vis 48, Fl 10, Ph 7, RPM 45+, WOB 45,000#, PP 1500, SPM 95, BGG 750-2000 units. Show #40 11190'-11232' 2300 units.

10/12/02 PO Drilling at 11353'. Fin POOH, function test BOP'S, GIH with bit # 11 a security XS-48. Drill Mesa Verde from 11315' to 11353'. Bit #10 made 562' in 72 ½ hrs. MW 11.1, Vis 48, Fl 10, Ph 7, Cl 65,000, WOB 45,000#, RPM 55+, PP 1500, SPM 107, BGG 800-1400.

10/13/02 PO Drilling at 11413'. Pump pill, POOH and PU new motor and bit #12, a Security XS-55, GIH and drill from 11353' to 11413'. Bit #11 made 38' in 19 ½ hrs. MW 11.1, Vis 46, Ph 7.5, Cl 75,000, WOB 45, RPM 45+, SPM 91, PP 1400.

10/14/02 PO Drilling at 11561'. Drill Mesa Verde and Castlegate from 11413' to 11561' with bit #12. MW 11.3, Vis 48, Fl 12, Ph 7, Cl 80,000, RPM 40, WOB 45,000#, PP 1500, BGG 500-1500 units.

10/15/02 PO Drilling at 11676. Drill Castle Gate from 11561' to 11639', circulate out gas kick and build weight, drill to 11642' started loosing returns, mix and pump LCM pill, drill to 11676'. MW 11.8, Vis 51, Fl 10, Ph 7, Cl 80,000, RPM 45, WOB 45,000#, PP 1500.
Show #41 11526'-11548' 1600 units
Show #42 11598'-11616' 1700 units
Show #43 11642'-11657' 2250 units

10/16/02 PO GIH with new bit. Drill Castlegate from 11676' to 11703' with bit # 12, bit wore out, 3'-20' flare, circulate and kill well, POOH and lay down motor, PU bit #13, a Security XS-38, GIH with new bit. MW 12.4, Vis 54, FL 10, Ph 7.

10/17/02 PO Drilling at 11775'. TIH with bit #13, correction bit #13 is a XS-48, wash and ream to bottom, no fill, drill Castlegate from 11703' to 11775'. MW 12.5, Vis 56, Fl 11.2, Ph 7, Cl 55,000, WOB 37,000#, RPM 50, PP1350, SPM 94, BGG 250-1100 units
Show # 44 11726'-11734' 1450 units.

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Uintah County, Utah

43-047-34199

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Daily Drilling Report

Distribution list: M. Decker, M. Erickson, R. Dean, H. Sharpe, J. Longwell, Phillips Petroleum, and Halliburton

8/21/02	Notify Ed Forsman, Vernal BLM of intent to begin location construction.
8/22/02	MI Huffman construction. Start building road from 31-29 to new location. Start to level off location. Hit solid rock near grade on location.
8/23/02	Work on road to location-70% complete. Location leveled except for two rock humps which will need to be blasted.
8/24/02	Move in rock drill start drilling blast holes in pit area. Drill steel broke, wait on new steel.
8/25/02	Wait on new drill steel.
8/26/02	Wait on new drill steel.
8/27/02	Finished drilling 450 blast holes, load holes with prell and dynamite. Blast pit area and two rock humps on location.
8/28/02	Push rubble out of pit area with cat. Level and extend location to accommodate CAZA rig #61. Move in Rat hole rig.
8/29/02	Blast rock mound in pit area, finish pushing rubble out of pit. Blade and compact road. Expect to spud well with rat hole rig midday 8/29/02.
8/30/02	Drill Rathole and mousehole. Finish dressing off location. Install pit liner.
8/31/02	Spud well 8/30/02 with Bill Junior's rathole rig. Drill 17 ½" hole to 233'. Run 13 3/8" 48# H-40 casing to 225'. Cement with 220 sacks Class G at 15.6 PPG, 2% CaCl , and ¼# flocele. Circulated 14 bbls to surface. Start moving in CAZA #61.
9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
9/3/02	SDF Labor Day
9/4/02	Continue moving in CAZA rig #61
9/5/02	Rig up CAZA #61.
9/6/02	Rig up CAZA #61, expect to start drilling on 9/6/02.

9/7/02 Finish rigging up CAZA rig #61.

9/8/02 Drill rathole, PU BHA, WO tools, GIH with bit #1 a 11' Security XC33N, Tag at 178', prime pumps, cut drill line, replace wash pipe packing.

9/9/02 PO drilling at 283'.Repair draworks brakes. Begin drilling cement at 04:00 AM 9-9-02. Drill cement from 178' to 225', drill new hole from 225' to 284'. Mud is water.

9/10/02 PO drilling at 1120'. Drill and survey from 284' to 1120'. Surveys: ½ deg at 500', ½ deg at 1050'. WOB 25,000#, 20 RPM, PP 1050 psi. Mud is water

9/11/02 PO Drilling at 2226'. Drill and survey from 1120' to 2226', started getting Gilsonite returns and encountered deviation at approx 2000'. Reduced WOB and started fanning bit to get hole straight again. Surveys: ½ deg at 1402', ½ deg at 1635', 2 ½ deg at 2012', 2 ¾ deg at 2031'. WOB 45,000# - 30,000#, Mud is water, RPM 20+200, PP 1440 psi.

9/12/02 PO Drilling at 3004'. Drill and survey from 2226' to 3004' with bit #1. Surveys: 2 ½ deg at 2197', 2 deg at 2471', 1 ½ deg at 2292', 2 ½ deg at 2924'. MW 8.5ppg, Vis 26, WOB 40, RPM 20+200, PP 1350, GPM 520.

9/13/02 PO Repair swivel packing. Drill and survey from 3004' to 3601' with bit #1. NOTE: had gas kick at 2783'. Surveys: 1 ½ deg at 3172', 2 deg at 3333'. MW 9.0, Vis 41, WOB 45,000#, RPM 20 + 200, PP 1700. Mud slightly cut back due to water flow.

9/14/02 PO Drilling at 3920'. Drill to 3703', raise mud weight to kill influx, circulate out gas and water for 1 hour, POOH for new bit, GIH with bit#2 a security 11'XC33N. Drill and survey from 3703' to 3920'. Surveys: 1 ½ deg at 3633'. MW 9.2, Vis 41, WOB 50,000#, RPM 20+200, PP 1600, GPM 569, Penetration rate 13-20'/hr.

9/15/02 PO Drilling at 4375'. Drill and survey from 3920' to 4375' with bit #2. Surveys: ½ deg at 3896'. ½ deg at 4234'. MW 9.3, Vis 40, RPM 20+200, WOB 45,000#, PP 1650#, GPM 560.

9/16/02 PO Logging at 4558'. Drill and survey from 4375' to 4558' with bit #2. Short trip- no flow. POOH and RU Halliburton Loggers. Surveys: 1 ½ deg at 4296', 1 ¾ deg at 4497', MW 9.6, Vis 41, RPM 25+200, WOB 55,000#, PP 1750#, GPM 555.

9/17/02 PO Laydown Hydril. Finish logging well, GIH to 3000' and circulate out gas. POOH, Run 106 jts of 8 5/8" 32# J-55 special drift ST&C casing to 4558'. RU Halliburton and cement casing with 560 sxs of Hi-Fill at 11.0 ppg, followed by 220 sxs of Class "G" mixed at 15.6 ppg. Performed two top jobs with 150 sxs of Class "G".

9/18/02 PO WO upper kelly cock. ND divertor, cut off wellhead and casing stub, weld on 8 5/8" wellhead and test same. NU 11" 5000# BOPS, test same, Upper kelly cock failed test BLM shut down rig until new one arrives.

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Uintah County, Utah

9/19/02 PO Drilling at 4872'. Finish testing BOP's and Kelly cock to 5000#, GIH with BHA, TOOH to change motor. GIH with 7 7/8" Security SEB 564. Drill cement and shoe and test formation to 640 psi. Drill from 4558' to 4872'. MW 8.5, Vis 28, FL 19, RPM 60, WOB 45,000#, PP 1200, GPM 358.

9/20/02 PO Drilling at 5503'. Drill Green River from 4872' to 5503' with bit #3. Survey: 2 deg at 4960'. MW 8.7, Vis 26, Ph 11.5, RPM 50+, WOB 45,000#, PP 1250, GPM 343.

9/21/02 PO Drilling at 6068'. Drill Green River and Wasatch formation with bit #3 from 5503' to 6068'. MW 8.8 DAPP, Vis 29, Ph 10, RPM 60+, WOB 45,000#, PP 1250.

9/22/02 PO Drilling at 6536'. Drill Wasatch formation with bit #3 to 6131', POOH and LD 31 jts DP and GIH with bit #4, a security 7 7/8" FM 2555. PU 32 new jts DP and drill to 6536'. MW 8.5 DAPP, Vis 26, PH 8, RPM 60+, WOB 15,000#, PP 1000, GPM 356. Bit #3 made 1573' in 55 hrs.

9/23/02 PO Tripping. Drill Wasatch from 6536' to 7602', pump slug, POOH and LD 20# DP. MW 8.6 DAPP, Vis 28, Ph 7.5, RPM 60+, WOB 10,000#, PP 1000.

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8/31/02	Spud well 8/30/02 with Bill Junior's rathole rig. Drill 17 ½" hole to 233'. Run 13 3/8" 48# H-40 casing to 225'. Cement with 220 sacks Class G at 15.6 PPG, 2% CaCl , and ¼# flocele. Circulated 14 bbls to surface. Start moving in CAZA #61.
9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
9/3/02	SDF Labor Day
9/4/02	Continue moving in CAZA rig #61
9/5/02	Rig up CAZA #61.
9/6/02	Rig up CAZA #61, expect to start drilling on 9/6/02.

9/7/02 Finish rigging up CAZA rig #61.

9/8/02 Drill rathole, PU BHA, WO tools, GIH with bit #1 a 11' Security XC33N, Tag at 178', prime pumps, cut drill line, replace wash pipe packing.

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9/10/02 PO drilling at 1120'. Drill and survey from 284' to 1120'. Surveys: ½ deg at 500', ½ deg at 1050'. WOB 25,000#, 20 RPM, PP 1050 psi. Mud is water

9/11/02 PO Drilling at 2226'. Drill and survey from 1120' to 2226', started getting Gilsonite returns and encountered deviation at approx 2000'. Reduced WOB and started fanning bit to get hole straight again. Surveys: ½ deg at 1402', ½ deg at 1635', 2 ½ deg at 2012', 2 ¾ deg at 2031'. WOB 45,000# - 30,000#, Mud is water, RPM 20+200, PP 1440 psi.

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9/13/02 PO Repair swivel packing. Drill and survey from 3004' to 3601' with bit #1. NOTE: had gas kick at 2783'. Surveys: 1 ½ deg at 3172', 2 deg at 3333'. MW 9.0, Vis 41, WOB 45,000#, RPM 20 + 200, PP 1700. Mud slightly cut back due to water flow.

9/14/02 PO Drilling at 3920'. Drill to 3703', raise mud weight to kill influx, circulate out gas and water for 1 hour, POOH for new bit, GIH with bit#2 a security 11'XC33N. Drill and survey from 3703' to 3920'. Surveys: 1 ½ deg at 3633'. MW 9.2, Vis 41, WOB 50,000#, RPM 20+200, PP 1600, GPM 569, Penetration rate 13-20'/hr.

9/15/02 PO Drilling at 4375'. Drill and survey from 3920' to 4375' with bit #2. Surveys: ½ deg at 3896'. ½ deg at 4234'. MW 9.3, Vis 40, RPM 20+200, WOB 45,000#, PP 1650#, GPM 560.

9/16/02 PO Logging at 4558'. Drill and survey from 4375' to 4558' with bit #2. Short trip- no flow. POOH and RU Halliburton Loggers. Surveys: 1 ½ deg at 4296', 1 ¾ deg at 4497', MW 9.6, Vis 41, RPM 25+200, WOB 55,000#, PP 1750#, GPM 555.

9/17/02 PO Laydown Hydril. Finish logging well, GIH to 3000' and circulate out gas. POOH, Run 106 jts of 8 5/8" 32# J-55 special drift ST&C casing to 4558'. RU Halliburton and cement casing with 560 sxs of Hi-Fill at 11.0 ppg, followed by 220 sxs of Class "G" mixed at 15.6 ppg. Performed two top jobs with 150 sxs of Class "G".

9/18/02 PO WO upper kelly cock. ND divertor, cut off wellhead and casing stub, weld on 8 5/8" wellhead and test same. NU 11" 5000# BOPS, test same, Upper kelly cock failed test BLM shut down rig until new one arrives.

9/19/02 PO Drilling at 4872'. Finish testing BOP's and Kelly cock to 5000#, GIH with BHA, TOOH to change motor. GIH with 7 7/8" Security SEB 564. Drill cement and shoe and test formation to 640 psi. Drill from 4558' to 4872'. MW 8.5, Vis 28, FL 19, RPM 60, WOB 45,000#, PP 1200, GPM 358.

9/20/02 PO Drilling at 5503'. Drill Green River from 4872' to 5503' with bit #3. Survey: 2 deg at 4960'. MW 8.7, Vis 26, Ph 11.5, RPM 50+, WOB 45,000#, PP 1250, GPM 343.

9/21/02 PO Drilling at 6068'. Drill Green River and Wasatch formation with bit #3 from 5503' to 6068'. MW 8.8 DAPP, Vis 29, Ph 10, RPM 60+, WOB 45,000#, PP 1250.

9/22/02 PO Drilling at 6536'. Drill Wasatch formation with bit #3 to 6131', POOH and LD 31 jts DP and GIH with bit #4, a security 7 7/8" FM 2555. PU 32 new jts DP and drill to 6536'. MW 8.5 DAPP, Vis 26, PH 8, RPM 60+, WOB 15,000#, PP 1000, GPM 356. Bit #3 made 1573' in 55 hrs.

9/23/02 PO Tripping. Drill Wasatch from 6536' to 7602', pump slug, POOH and LD 20# DP. MW 8.6 DAPP, Vis 28, Ph 7.5, RPM 60+, WOB 10,000#, PP 1000.

9/24/02 PO Drilling at 7769'. LDDP for hardbanding, switch pipe around, GIH with BHA and drill Wasatch formation from 7602' to 7769'. MW 8.7, Vis 30, WOB 35,000#, RPM 60+, PP 1150.

9/25/02 PO Drilling at 8133'. Drill Wasatch formation from 7769' to 8133' with bit #5, a security XS-31. Bit #4, a diamond bit, was pulled green and made 1471' in 30 ½ hrs. MW 8.8, Vis 30, WOB 40,000#, RPM 40+, PP1200.

9/26/02 PO Drilling at 8507'. Drill Wasatch formation from 8133' to 8507'with bit #5. MW 9.1, Vis 30, WOB 46,000#, PP1250, RPM 40+.

9/27/02 PO Tripping for new bit. Drill Wasatch formation from 8507' to 8752' with bit #5, pump slug, POOH. MW 9.1, Vis 38, RPM 40+, PP 1300, Ph 8, Fl 20.

9/28/02 PO Drilling at 8950'. GIH with bit #6, a security XS-33, Drill Wasatch from 8752' to 8950'. MW 9.2, Vis 37, RPM 45+, WOB 48,000#, PP 1450, Bit #5 made 1150' in 78 hrs.

9/29/02 PO Drilling at 9217'. Drilled Wasatch formation from 8950' to 9217'. Made 268' in 24 hrs. MW 9.6, Vis 37, Ph 8, Cl 6100, WOB 47,000#, RPM 46+,

9/30/02 PO Drilling at 9304'. Drill to 9236 with bit #6. POOH for bit #7, a Security XS-44. Drill Mesa Verde from 9236' to 9304'. Made 87' in last 24 hrs. Bit #6 made 484' in 43 hrs. MW 9.9, Vis 38, Fl 13.6, Ph 8.0, Cl 45,000, WOB 48,000#, RPM 46+, PP 1400.

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10/4/02 PO Tripping for new bit. Drill Mesa Verde from 9842' to 9970' with bit #8, pump pill, and POOH, GIH with bit #9, a security XS-44. Bit #8 made 231' in 23 hrs and had a bearing failure. MW 10, Vis 40, FL 12, Ph 7.

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10/6/02 PO Drilling at 10430'. Drill Mesa Verde from 10164' to 10430' with bit #9, had 5 shows from 10174' to 10308'. MW 10.2, Vis 37, Fl 11.2, Cl 70,000, WOB 45,000#, RPM 60+, PP 1550.

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10/9/02 PO Drilling at 10984'. Drill Mesa Verde with bit #10 from 10788' to 10984'. MW 10.2, Vis 40, Fl 9.6, Ph 7, Cl 55,000, WOB 45,000#, RPM 45+, SPM 98, PP 1600. BGG 450-500 units, no shows last 24 hrs.

10/10/02 PO Drilling at 11175'. Drill Mesa Verde with bit #10 from 10984' to 11175'. MW 10.4, Vis 44, Fl 10.2, Ph 7, Cl 57,000 WOB 45,000#, RPM 45+, PP 1600, BGG 600-1500 units, Show #38 11010'-11048' 1450 units, show #39 11116'-11128' 1250 units.

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8/29/02	Blast rock mound in pit area, finish pushing rubble out of pit. Blade and compact road. Expect to spud well with rat hole rig midday 8/29/02.
8/30/02	Drill Rathole and mousehole. Finish dressing off location. Install pit liner.
8/31/02	Spud well 8/30/02 with Bill Junior's rathole rig. Drill 17 ½" hole to 233'. Run 13 3/8" 48# H-40 casing to 225'. Cement with 220 sacks Class G at 15.6 PPG, 2% CaCl , and ¼# flocele. Circulated 14 bbls to surface. Start moving in CAZA #61.
9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
9/3/02	SDF Labor Day
9/4/02	Continue moving in CAZA rig #61
9/5/02	Rig up CAZA #61.
9/6/02	Rig up CAZA #61, expect to start drilling on 9/6/02.

9/7/02 Finish rigging up CAZA rig #61.

9/8/02 Drill rathole, PU BHA, WO tools, GIH with bit #1 a 11' Security XC33N, Tag at 178', prime pumps, cut drill line, replace wash pipe packing.

9/9/02 PO drilling at 283'.Repair draworks brakes. Begin drilling cement at 04:00 AM 9-9-02. Drill cement from 178' to 225', drill new hole from 225' to 284'. Mud is water.

9/10/02 PO drilling at 1120'. Drill and survey from 284' to 1120'. Surveys: ½ deg at 500', ½ deg at 1050'. WOB 25,000#, 20 RPM, PP 1050 psi. Mud is water

9/11/02 PO Drilling at 2226'. Drill and survey from 1120' to 2226', started getting Gilsonite returns and encountered deviation at approx 2000'. Reduced WOB and started fanning bit to get hole straight again. Surveys: ½ deg at 1402', ½ deg at 1635', 2 ½ deg at 2012', 2 ¾ deg at 2031'. WOB 45,000# - 30,000#, Mud is water, RPM 20+200, PP 1440 psi.

9/12/02 PO Drilling at 3004'. Drill and survey from 2226' to 3004' with bit #1. Surveys: 2 ½ deg at 2197', 2 deg at 2471', 1 ½ deg at 2292', 2 ½ deg at 2924'. MW 8.5ppg, Vis 26, WOB 40, RPM 20+200, PP 1350, GPM 520.

9/13/02 PO Repair swivel packing. Drill and survey from 3004' to 3601' with bit #1. NOTE: had gas kick at 2783'. Surveys: 1 ½ deg at 3172', 2 deg at 3333'. MW 9.0, Vis 41, WOB 45,000#, RPM 20 + 200, PP 1700. Mud slightly cut back due to water flow.

9/14/02 PO Drilling at 3920'. Drill to 3703', raise mud weight to kill influx, circulate out gas and water for 1 hour, POOH for new bit, GIH with bit#2 a security 11'XC33N. Drill and survey from 3703' to 3920'. Surveys: 1 ½ deg at 3633'. MW 9.2, Vis 41, WOB 50,000#, RPM 20+200, PP 1600, GPM 569, Penetration rate 13-20'/hr.

9/15/02 PO Drilling at 4375'. Drill and survey from 3920' to 4375' with bit #2. Surveys: ½ deg at 3896'. ½ deg at 4234'. MW 9.3, Vis 40, RPM 20+200, WOB 45,000#, PP 1650#, GPM 560.

9/16/02 PO Logging at 4558'. Drill and survey from 4375' to 4558' with bit #2. Short trip- no flow. POOH and RU Halliburton Loggers. Surveys: 1 ½ deg at 4296', 1 ¾ deg at 4497', MW 9.6, Vis 41, RPM 25+200, WOB 55,000#, PP 1750#, GPM 555.

9/17/02 PO Laydown Hydril. Finish logging well, GIH to 3000' and circulate out gas. POOH, Run 106 jts of 8 5/8" 32# J-55 special drift ST&C casing to 4558'. RU Halliburton and cement casing with 560 sxs of Hi-Fill at 11.0 ppg, followed by 220 sxs of Class "G" mixed at 15.6 ppg. Performed two top jobs with 150 sxs of Class "G".

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GASCO Energy Inc

Daily Completion Report
Federal #23-21-9-19
NESW, Sec. 21, T9S, R19E
Uintah County, Utah

9/19/02 PO Drilling at 4872'. Finish testing BOP's and Kelly cock to 5000#, GIH with BHA, TOOH to change motor. GIH with 7 7/8" Security SEB 564. Drill cement and shoe and test formation to 640 psi. Drill from 4558' to 4872'. MW 8.5, Vis 28, FL 19, RPM 60, WOB 45,000#, PP 1200, GPM 358.

9/20/02 PO Drilling at 5503'. Drill Green River from 4872' to 5503' with bit #3. Survey: 2 deg at 4960'. MW 8.7, Vis 26, Ph 11.5, RPM 50+, WOB 45,000#, PP 1250, GPM 343.

9/21/02 PO Drilling at 6068'. Drill Green River and Wasatch formation with bit #3 from 5503' to 6068'. MW 8.8 DAPP, Vis 29, Ph 10, RPM 60+, WOB 45,000#, PP 1250.

9/22/02 PO Drilling at 6536'. Drill Wasatch formation with bit #3 to 6131', POOH and LD 31 jts DP and GIH with bit #4, a security 7 7/8" FM 2555. PU 32 new jts DP and drill to 6536'. MW 8.5 DAPP, Vis 26, PH 8, RPM 60+, WOB 15,000#, PP 1000, GPM 356. Bit #3 made 1573' in 55 hrs.

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9/25/02 PO Drilling at 8133'. Drill Wasatch formation from 7769' to 8133' with bit #5, a security XS-31. Bit #4, a diamond bit, was pulled green and made 1471' in 30 ½ hrs. MW 8.8, Vis 30, WOB 40,000#, RPM 40+, PP1200.

GASCO Energy Inc

Daily Completion Report
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Uintah County, Utah

Federal 23-21-9-19
Daily Drilling Report

Distribution list: M. Decker, M. Erickson, R. Dean, H. Sharpe, J. Longwell, Phillips Petroleum, and Halliburton

8/21/02	Notify Ed Forsman, Vernal BLM of intent to begin location construction.
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9/15/02 PO Drilling at 4375'. Drill and survey from 3920' to 4375' with bit #2. Surveys: ½ deg at 3896'. ½ deg at 4234'. MW 9.3, Vis 40, RPM 20+200, WOB 45,000#, PP 1650#, GPM 560.

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9/17/02 PO Laydown Hydril. Finish logging well, GIH to 3000' and circulate out gas. POOH, Run 106 jts of 8 5/8" 32# J-55 special drift ST&C casing to 4558'. RU Halliburton and cement casing with 560 sxs of Hi-Fill at 11.0 ppg, followed by 220 sxs of Class "G" mixed at 15.6 ppg. Performed two top jobs with 150 sxs of Class "G".

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9/24/02 PO Drilling at 7769'. LDDP for hardbanding, switch pipe around, GIH with BHA and drill Wasatch formation from 7602' to 7769'. MW 8.7, Vis 30, WOB 35,000#, RPM 60+, PP 1150.

9/25/02 PO Drilling at 8133'. Drill Wasatch formation from 7769' to 8133' with bit #5, a security XS-31. Bit #4, a diamond bit, was pulled green and made 1471' in 30 ½ hrs. MW 8.8, Vis 30, WOB 40,000#, RPM 40+, PP1200.

9/26/02 PO Drilling at 8507'. Drill Wasatch formation from 8133' to 8507'with bit #5. MW 9.1, Vis 30, WOB 46,000#, PP1250, RPM 40+.

9/27/02 PO Tripping for new bit. Drill Wasatch formation from 8507' to 8752' with bit #5, pump slug, POOH. MW 9.1, Vis 38, RPM 40+, PP 1300, Ph 8, Fl 20.

9/28/02 PO Drilling at 8950'. GIH with bit #6, a security XS-33, Drill Wasatch from 8752' to 8950'. MW 9.2, Vis 37, RPM 45+, WOB 48,000#, PP 1450, Bit #5 made 1150' in 78 hrs.

9/29/02 PO Drilling at 9217'. Drilled Wasatch formation from 8950' to 9217'. Made 268' in 24 hrs. MW 9.6, Vis 37, Ph 8, Cl 6100, WOB 47,000#, RPM 46+,

9/30/02 PO Drilling at 9304'. Drill to 9236 with bit #6. POOH for bit #7, a Security XS-44. Drill Mesa Verde from 9236' to 9304'. Made 87' in last 24 hrs. Bit #6 made 484' in 43 hrs. MW 9.9, Vis 38, Fl 13.6, Ph 8.0, Cl 45,000, WOB 48,000#, RPM 46+, PP 1400.

10/1/02 PO Drilling at 9503'. Drill Mesa Verde from 9304' to 9503'. Made 199' in 24 hrs with bit #7. MW 9.8, Vis 39, Fl 16, Cl 55,000, WOB 45,000#, RPM 48+, PP 1400.

10/2/02 PO Drilling at 9706'. Drill Mesa Verde from 9499' to 9706' with bit #7. MW 9.8, Vis 38, Fl 12, Ph 7, WOB 45,000#, RPM 60, PP 1450.

10/3/02 PO Drilling at 9842'. Drill Mesa Verde from 9706' to 9739' POOH for new bit, change motor, test BOP's, and GIH with bit #8, a security XS-44. GIH and drill from 9739' to 9842'. Bit #7 made 503' in 59 ½ hrs. Mw 9.8, Vis 36, Fl 12, Ph 7, WOB 45,000#, RPM 45+

10/4/02 PO Tripping for new bit. Drill Mesa Verde from 9842' to 9970' with bit #8, pump pill, and POOH, GIH with bit #9, a security XS-44. Bit #8 made 231' in 23 hrs and had a bearing failure. MW 10, Vis 40, FL 12, Ph 7.

10/5/02 PO Drilling at 10164'. Drill Mesa Verde from 9970' to 10164' with bit #9, had 3 shows from 9984' to 10115'. MW 10.2, Vis 41, Fl 12, Ph 7, Cl 70,000.

10/6/02 PO Drilling at 10430'. Drill Mesa Verde from 10164' to 10430' with bit #9, had 5 shows from 10174' to 10308'. MW 10.2, Vis 37, Fl 11.2, Cl 70,000, WOB 45,000#, RPM 60+, PP 1550.

10/7/02 PO Drilling at 10700'. Drill Mesa Verde from 10430' to 10700' with bit #9, had 2'-10' flare burning most of the day. Drilled 3 good shows from 10426'-10558'.BGG 850-2500, MW 10.2, Vis 40, Fl 10.6, Ph 7, Cl 70,000, RPM 60+, WOB 45,000#, PP 1600, GPM 341,

10/8/02 PO Drilling at 10788'. Drill Mesa Verde with bit #9 from 10,700' to 10753', pump pill, survey 2 deg at 10,700', POOH and change mud motor and bit. Replace air compressor and GIH with bit #10 , a Security XS-48. Drill from 10,753 to 10786'. Mw 10.2, Vis 42, Fl 9.6, Ph 7, Cl 70,000, WOB 45,000#, RPM 25+, SPM 106, PP 1600. Show #37, 10735-10750' 2520 units, BGG 350-1200 units.

10/9/02 PO Drilling at 10984'. Drill Mesa Verde with bit #10 from 10788' to 10984'. MW 10.2, Vis 40, Fl 9.6, Ph 7, Cl 55,000, WOB 45,000#, RPM 45+, SPM 98, PP 1600. BGG 450-500 units, no shows last 24 hrs.

10/10/02 PO Drilling at 11175'. Drill Mesa Verde with bit #10 from 10984' to 11175'. MW 10.4, Vis 44, Fl 10.2, Ph 7, Cl 57,000 WOB 45,000#, RPM 45+, PP 1600, BGG 600-1500 units, Show #38 11010'-11048' 1450 units, show #39 11116'-11128' 1250 units.

10/11/02 PO Tripping for new bit. Drilled Mesa Verde from 11175' to 11315' with bit #10, pump pill, drop survey, POOH for new bit. Mw 10.9, Vis 48, Fl 10, Ph 7, RPM 45+, WOB 45,000#, PP 1500, SPM 95, BGG 750-2000 units. Show #40 11190'-11232' 2300 units.

10/12/02 PO Drilling at 11353'. Fin POOH, function test BOP'S, GIH with bit # 11 a security XS-48. Drill Mesa Verde from 11315' to 11353'. Bit #10 made 562' in 72 ½ hrs. MW 11.1, Vis 48, Fl 10, Ph 7, Cl 65,000, WOB 45,000#, RPM 55+, PP 1500, SPM 107, BGG 800-1400.

10/13/02 PO Drilling at 11413'. Pump pill, POOH and PU new motor and bit #12, a Security XS-55, GIH and drill from 11353' to 11413'. Bit #11 made 38' in 19 ½ hrs. MW 11.1, Vis 46, Ph 7.5, Cl 75,000, WOB 45, RPM 45+, SPM 91, PP 1400.

10/14/02 PO Drilling at 11561'. Drill Mesa Verde and Castlegate from 11413' to 11561' with bit #12. MW 11.3, Vis 48, Fl 12, Ph 7, Cl 80,000, RPM 40, WOB 45,000#, PP 1500, BGG 500-1500 units.

10/15/02 PO Drilling at 11676. Drill Castle Gate from 11561' to 11639', circulate out gas kick and build weight, drill to 11642' started loosing returns, mix and pump LCM pill, drill to 11676'. MW 11.8, Vis 51, Fl 10, Ph 7, Cl 80,000, RPM 45, WOB 45,000#, PP 1500.
Show #41 11526'-11548' 1600 units
Show #42 11598'-11616' 1700 units
Show #43 11642'-11657' 2250 units

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Daily Completion Report
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NESW, Sec. 21, T9S, R19E
Uintah County, Utah

43-047-34199

Federal 23-21-9-19
Daily Drilling Report

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9/29/02 PO Drilling at 9217'. Drilled Wasatch formation from 8950' to 9217'. Made 268' in 24 hrs. MW 9.6, Vis 37, Ph 8, Cl 6100, WOB 47,000#, RPM 46+,

9/30/02 PO Drilling at 9304'. Drill to 9236 with bit #6. POOH for bit #7, a Security XS-44. Drill Mesa Verde from 9236' to 9304'. Made 87' in last 24 hrs. Bit #6 made 484' in 43 hrs. MW 9.9, Vis 38, Fl 13.6, Ph 8.0, Cl 45,000, WOB 48,000#, RPM 46+, PP 1400.

10/1/02 PO Drilling at 9503'. Drill Mesa Verde from 9304' to 9503'. Made 199' in 24 hrs with bit #7. MW 9.8, Vis 39, Fl 16, Cl 55,000, WOB 45,000#, RPM 48+, PP 1400.

10/2/02 PO Drilling at 9706'. Drill Mesa Verde from 9499' to 9706' with bit #7. MW 9.8, Vis 38, Fl 12, Ph 7, WOB 45,000#, RPM 60, PP 1450.

10/3/02 PO Drilling at 9842'. Drill Mesa Verde from 9706' to 9739' POOH for new bit, change motor, test BOP's, and GIH with bit #8, a security XS-44. GIH and drill from 9739' to 9842'. Bit #7 made 503' in 59 ½ hrs. Mw 9.8, Vis 36, Fl 12, Ph 7, WOB 45,000#, RPM 45+

10/4/02 PO Tripping for new bit. Drill Mesa Verde from 9842' to 9970' with bit #8, pump pill, and POOH, GIH with bit #9, a security XS-44. Bit #8 made 231' in 23 hrs and had a bearing failure. MW 10, Vis 40, FL 12, Ph 7.

10/5/02 PO Drilling at 10164'. Drill Mesa Verde from 9970' to 10164' with bit #9, had 3 shows from 9984' to 10115'. MW 10.2, Vis 41, Fl 12, Ph 7, Cl 70,000.

10/6/02 PO Drilling at 10430'. Drill Mesa Verde from 10164' to 10430' with bit #9, had 5 shows from 10174' to 10308'. MW 10.2, Vis 37, Fl 11.2, Cl 70,000, WOB 45,000#, RPM 60+, PP 1550.

10/7/02 PO Drilling at 10700'. Drill Mesa Verde from 10430' to 10700' with bit #9, had 2'-10' flare burning most of the day. Drilled 3 good shows from 10426'-10558'.BGG 850-2500, MW 10.2, Vis 40, Fl 10.6, Ph 7, Cl 70,000, RPM 60+, WOB 45,000#, PP 1600, GPM 341,

10/8/02 PO Drilling at 10788'. Drill Mesa Verde with bit #9 from 10,700' to 10753', pump pill, survey 2 deg at 10,700', POOH and change mud motor and bit. Replace air compressor and GIH with bit #10 , a Security XS-48. Drill from 10,753 to 10786'. Mw 10.2, Vis 42, Fl 9.6, Ph 7, Cl 70,000, WOB 45,000#, RPM 25+, SPM 106, PP 1600. Show #37, 10735-10750' 2520 units, BGG 350-1200 units.

10/9/02 PO Drilling at 10984'. Drill Mesa Verde with bit #10 from 10788' to 10984'. MW 10.2, Vis 40, Fl 9.6, Ph 7, Cl 55,000, WOB 45,000#, RPM 45+, SPM 98, PP 1600. BGG 450-500 units, no shows last 24 hrs.

GASCO Energy Inc

Daily Completion Report
Federal #23-21-9-19
NESW, Sec. 21, T9S, R19E
Uintah County, Utah

43-047-34199

Federal 23-21-9-19
Daily Drilling Report

Distribution list: M. Decker, M. Erickson, R. Dean, H. Sharpe, J. Longwell, Phillips Petroleum, and Halliburton

8/21/02	Notify Ed Forsman, Vernal BLM of intent to begin location construction.
8/22/02	MI Huffman construction. Start building road from 31-29 to new location. Start to level off location. Hit solid rock near grade on location.
8/23/02	Work on road to location-70% complete. Location leveled except for two rock humps which will need to be blasted.
8/24/02	Move in rock drill start drilling blast holes in pit area. Drill steel broke, wait on new steel.
8/25/02	Wait on new drill steel.
8/26/02	Wait on new drill steel.
8/27/02	Finished drilling 450 blast holes, load holes with prell and dynamite. Blast pit area and two rock humps on location.
8/28/02	Push rubble out of pit area with cat. Level and extend location to accommodate CAZA rig #61. Move in Rat hole rig.
8/29/02	Blast rock mound in pit area, finish pushing rubble out of pit. Blade and compact road. Expect to spud well with rat hole rig midday 8/29/02.
8/30/02	Drill Rathole and mousehole. Finish dressing off location. Install pit liner.
8/31/02	Spud well 8/30/02 with Bill Junior's rathole rig. Drill 17 ½" hole to 233'. Run 13 3/8" 48# H-40 casing to 225'. Cement with 220 sacks Class G at 15.6 PPG, 2% CaCl , and ¼# flocele. Circulated 14 bbls to surface. Start moving in CAZA #61.
9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
9/3/02	SDF Labor Day
9/4/02	Continue moving in CAZA rig #61
9/5/02	Rig up CAZA #61.
9/6/02	Rig up CAZA #61, expect to start drilling on 9/6/02.

9/7/02 Finish rigging up CAZA rig #61.

9/8/02 Drill rathole, PU BHA, WO tools, GIH with bit #1 a 11' Security XC33N, Tag at 178', prime pumps, cut drill line, replace wash pipe packing.

9/9/02 PO drilling at 283'.Repair draworks brakes. Begin drilling cement at 04:00 AM 9-9-02. Drill cement from 178' to 225', drill new hole from 225' to 284'. Mud is water.

9/10/02 PO drilling at 1120'. Drill and survey from 284' to 1120'. Surveys: ½ deg at 500', ½ deg at 1050'. WOB 25,000#, 20 RPM, PP 1050 psi. Mud is water

9/11/02 PO Drilling at 2226'. Drill and survey from 1120' to 2226', started getting Gilsonite returns and encountered deviation at approx 2000'. Reduced WOB and started fanning bit to get hole straight again. Surveys: ½ deg at 1402', ½ deg at 1635', 2 ½ deg at 2012', 2 ¾ deg at 2031'. WOB 45,000# - 30,000#, Mud is water, RPM 20+200, PP 1440 psi.

9/12/02 PO Drilling at 3004'. Drill and survey from 2226' to 3004' with bit #1. Surveys: 2 ½ deg at 2197', 2 deg at 2471', 1 ½ deg at 2292', 2 ½ deg at 2924'. MW 8.5ppg, Vis 26, WOB 40, RPM 20+200, PP 1350, GPM 520.

9/13/02 PO Repair swivel packing. Drill and survey from 3004' to 3601' with bit #1. NOTE: had gas kick at 2783'. Surveys: 1 ½ deg at 3172', 2 deg at 3333'. MW 9.0, Vis 41, WOB 45,000#, RPM 20 + 200, PP 1700. Mud slightly cut back due to water flow.

9/14/02 PO Drilling at 3920'. Drill to 3703', raise mud weight to kill influx, circulate out gas and water for 1 hour, POOH for new bit, GIH with bit#2 a security 11'XC33N. Drill and survey from 3703' to 3920'. Surveys: 1 ½ deg at 3633'. MW 9.2, Vis 41, WOB 50,000#, RPM 20+200, PP 1600, GPM 569, Penetration rate 13-20'/hr.

9/15/02 PO Drilling at 4375'. Drill and survey from 3920' to 4375' with bit #2. Surveys: ½ deg at 3896'. ½ deg at 4234'. MW 9.3, Vis 40, RPM 20+200, WOB 45,000#, PP 1650#, GPM 560.

9/16/02 PO Logging at 4558'. Drill and survey from 4375' to 4558' with bit #2. Short trip- no flow. POOH and RU Halliburton Loggers. Surveys: 1 ½ deg at 4296', 1 ¾ deg at 4497', MW 9.6, Vis 41, RPM 25+200, WOB 55,000#, PP 1750#, GPM 555.

9/17/02 PO Laydown Hydril. Finish logging well, GIH to 3000' and circulate out gas. POOH, Run 106 jts of 8 5/8" 32# J-55 special drift ST&C casing to 4558'. RU Halliburton and cement casing with 560 sxs of Hi-Fill at 11.0 ppg, followed by 220 sxs of Class "G" mixed at 15.6 ppg. Performed two top jobs with 150 sxs of Class "G".

9/18/02 PO WO upper kelly cock. ND divertor, cut off wellhead and casing stub, weld on 8 5/8" wellhead and test same. NU 11" 5000# BOPS, test same, Upper kelly cock failed test BLM shut down rig until new one arrives.

9/19/02 PO Drilling at 4872'. Finish testing BOP's and Kelly cock to 5000#, GIH with BHA, TOOH to change motor. GIH with 7 7/8" Security SEB 564. Drill cement and shoe and test formation to 640 psi. Drill from 4558' to 4872'. MW 8.5, Vis 28, FL 19, RPM 60, WOB 45,000#, PP 1200, GPM 358.

9/20/02 PO Drilling at 5503'. Drill Green River from 4872' to 5503' with bit #3. Survey: 2 deg at 4960'. MW 8.7, Vis 26, Ph 11.5, RPM 50+, WOB 45,000#, PP 1250, GPM 343.

9/21/02 PO Drilling at 6068'. Drill Green River and Wasatch formation with bit #3 from 5503' to 6068'. MW 8.8 DAPP, Vis 29, Ph 10, RPM 60+, WOB 45,000#, PP 1250.

9/22/02 PO Drilling at 6536'. Drill Wasatch formation with bit #3 to 6131', POOH and LD 31 jts DP and GIH with bit #4, a security 7 7/8" FM 2555. PU 32 new jts DP and drill to 6536'. MW 8.5 DAPP, Vis 26, PH 8, RPM 60+, WOB 15,000#, PP 1000, GPM 356. Bit #3 made 1573' in 55 hrs.

9/23/02 PO Tripping. Drill Wasatch from 6536' to 7602', pump slug, POOH and LD 20# DP. MW 8.6 DAPP, Vis 28, Ph 7.5, RPM 60+, WOB 10,000#, PP 1000.

9/24/02 PO Drilling at 7769'. LDDP for hardbanding, switch pipe around, GIH with BHA and drill Wasatch formation from 7602' to 7769'. MW 8.7, Vis 30, WOB 35,000#, RPM 60+, PP 1150.

9/25/02 PO Drilling at 8133'. Drill Wasatch formation from 7769' to 8133' with bit #5, a security XS-31. Bit #4, a diamond bit, was pulled green and made 1471' in 30 ½ hrs. MW 8.8, Vis 30, WOB 40,000#, RPM 40+, PP1200.

9/26/02 PO Drilling at 8507'. Drill Wasatch formation from 8133' to 8507'with bit #5. MW 9.1, Vis 30, WOB 46,000#, PP1250, RPM 40+.

9/27/02 PO Tripping for new bit. Drill Wasatch formation from 8507' to 8752' with bit #5, pump slug, POOH. MW 9.1, Vis 38, RPM 40+, PP 1300, Ph 8, Fl 20.

9/28/02 PO Drilling at 8950'. GIH with bit #6, a security XS-33, Drill Wasatch from 8752' to 8950'. MW 9.2, Vis 37, RPM 45+, WOB 48,000#, PP 1450, Bit #5 made 1150' in 78 hrs.

9/29/02 PO Drilling at 9217'. Drilled Wasatch formation from 8950' to 9217'. Made 268' in 24 hrs. MW 9.6, Vis 37, Ph 8, Cl 6100, WOB 47,000#, RPM 46+,

9/30/02 PO Drilling at 9304'. Drill to 9236 with bit #6. POOH for bit #7, a Security XS-44. Drill Mesa Verde from 9236' to 9304'. Made 87' in last 24 hrs. Bit #6 made 484' in 43 hrs. MW 9.9, Vis 38, Fl 13.6, Ph 8.0, Cl 45,000, WOB 48,000#, RPM 46+, PP 1400.

10/1/02 PO Drilling at 9503'. Drill Mesa Verde from 9304' to 9503'. Made 199' in 24 hrs with bit #7. MW 9.8, Vis 39, Fl 16, Cl 55,000, WOB 45,000#, RPM 48+, PP 1400.

10/2/02 PO Drilling at 9706'. Drill Mesa Verde from 9499' to 9706' with bit #7. MW 9.8, Vis 38, Fl 12, Ph 7, WOB 45,000#, RPM 60, PP 1450.

10/3/02 PO Drilling at 9842'. Drill Mesa Verde from 9706' to 9739' POOH for new bit, change motor, test BOP's, and GIH with bit #8, a security XS-44. GIH and drill from 9739' to 9842'. Bit #7 made 503' in 59 ½ hrs. Mw 9.8, Vis 36, Fl 12, Ph 7, WOB 45,000#, RPM 45+

10/4/02 PO Tripping for new bit. Drill Mesa Verde from 9842' to 9970' with bit #8, pump pill, and POOH, GIH with bit #9, a security XS-44. Bit #8 made 231' in 23 hrs and had a bearing failure. MW 10, Vis 40, FL 12, Ph 7.

10/5/02 PO Drilling at 10164'. Drill Mesa Verde from 9970' to 10164' with bit #9, had 3 shows from 9984' to 10115'. MW 10.2, Vis 41, Fl 12, Ph 7, Cl 70,000.

10/6/02 PO Drilling at 10430'. Drill Mesa Verde from 10164' to 10430' with bit #9, had 5 shows from 10174' to 10308'. MW 10.2, Vis 37, Fl 11.2, Cl 70,000, WOB 45,000#, RPM 60+, PP 1550.

10/7/02 PO Drilling at 10700'. Drill Mesa Verde from 10430' to 10700' with bit #9, had 2'-10' flare burning most of the day. Drilled 3 good shows from 10426'-10558'.BGG 850-2500, MW 10.2, Vis 40, Fl 10.6, Ph 7, Cl 70,000, RPM 60+, WOB 45,000#, PP 1600, GPM 341,

10/8/02 PO Drilling at 10788'. Drill Mesa Verde with bit #9 from 10,700' to 10753', pump pill, survey 2 deg at 10,700', POOH and change mud motor and bit. Replace air compressor and GIH with bit #10 , a Security XS-48. Drill from 10,753 to 10786'. Mw 10.2, Vis 42, Fl 9.6, Ph 7, Cl 70,000, WOB 45,000#, RPM 25+, SPM 106, PP 1600. Show #37, 10735-10750' 2520 units, BGG 350-1200 units.

10/9/02 PO Drilling at 10984'. Drill Mesa Verde with bit #10 from 10788' to 10984'. MW 10.2, Vis 40, Fl 9.6, Ph 7, Cl 55,000, WOB 45,000#, RPM 45+, SPM 98, PP 1600. BGG 450-500 units, no shows last 24 hrs.

10/10/02 PO Drilling at 11175'. Drill Mesa Verde with bit #10 from 10984' to 11175'. MW 10.4, Vis 44, Fl 10.2, Ph 7, Cl 57,000 WOB 45,000#, RPM 45+, PP 1600, BGG 600-1500 units, Show #38 11010'-11048' 1450 units, show #39 11116'-11128' 1250 units.

10/11/02 PO Tripping for new bit. Drilled Mesa Verde from 11175' to 11315' with bit #10, pump pill, drop survey, POOH for new bit. Mw 10.9, Vis 48, Fl 10, Ph 7, RPM 45+, WOB 45,000#, PP 1500, SPM 95, BGG 750-2000 units. Show #40 11190'-11232' 2300 units.

10/12/02 PO Drilling at 11353'. Fin POOH, function test BOP'S, GIH with bit # 11 a security XS-48. Drill Mesa Verde from 11315' to 11353'. Bit #10 made 562' in 72 ½ hrs. MW 11.1, Vis 48, Fl 10, Ph 7, Cl 65,000, WOB 45,000#, RPM 55+, PP 1500, SPM 107, BGG 800-1400.

10/13/02 PO Drilling at 11413'. Pump pill, POOH and PU new motor and bit #12, a Security XS-55, GIH and drill from 11353' to 11413'. Bit #11 made 38' in 19 ½ hrs. MW 11.1, Vis 46, Ph 7.5, Cl 75,000, WOB 45, RPM 45+, SPM 91, PP 1400.

10/14/02 PO Drilling at 11561'. Drill Mesa Verde and Castlegate from 11413' to 11561' with bit #12. MW 11.3, Vis 48, Fl 12, Ph 7, Cl 80,000, RPM 40, WOB 45,000#, PP 1500, BGG 500-1500 units.

10/15/02 PO Drilling at 11676. Drill Castle Gate from 11561' to 11639', circulate out gas kick and build weight, drill to 11642' started loosing returns, mix and pump LCM pill, drill to 11676'. MW 11.8, Vis 51, Fl 10, Ph 7, Cl 80,000, RPM 45, WOB 45,000#, PP 1500.
Show #41 11526'-11548' 1600 units
Show #42 11598'-11616' 1700 units
Show #43 11642'-11657' 2250 units

10/16/02 PO GIH with new bit. Drill Castlegate from 11676' to 11703' with bit # 12, bit wore out, 3'-20' flare, circulate and kill well, POOH and lay down motor, PU bit #13, a Security XS-38, GIH with new bit. MW 12.4, Vis 54, FL 10, Ph 7.

10/17/02 PO Drilling at 11775'. TIH with bit #13, correction bit #13 is a XS-48, wash and ream to bottom, no fill, drill Castlegate from 11703' to 11775'. MW 12.5, Vis 56, Fl 11.2, Ph 7, Cl 55,000, WOB 37,000#, RPM 50, PP1350, SPM 94, BGG 250-1100 units
Show # 44 11726'-11734' 1450 units.

10/18/02 PO Drilling at 11863'. Drill Castlegate from 11775' to 11863' with bit #13. MW 12.4, Vis 52, Fl 9, Ph 7, Cl 100,000, RPM 55, WOB48,000#, PP 1450, SPM 100, BGG 650-1800.
Show #45 11832'-11840' 1250-2025-1120 units.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: GASCO Energy (Pannonian Energy

Operator Account Number: N 1815

Address: 14 Inverness Dr East

city Englewood

state CO zip 80112-5625

Phone Number: (303) 483-0044

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
43-047-34199	Federal 23-21-9-19		NESW	21	9S	19E	Uintah
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	13601	8/30/2002			9-23-02	

Comments: This is a new well.

CONFIDENTIAL

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

RECEIVED
SEP 23 2002
DIVISION OF
OIL, GAS AND MINING

ACTION CODES:

- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

John D. Longwell
Name (Please Print)

Signature

Operations Manager
Title

9/16/2002
Date

(5/2000)

GASCO Energy Inc

Daily Completion Report
Federal #23-21-9-19
NESW, Sec. 21, T9S, R19E
Uintah County, Utah

Federal 23-21-9-19
Daily Drilling Report

Distribution list: M. Decker, M. Erickson, R. Dean, H. Sharpe, J. Longwell, Phillips Petroleum, and Halliburton

8/21/02	Notify Ed Forsman, Vernal BLM of intent to begin location construction.
8/22/02	MI Huffman construction. Start building road from 31-29 to new location. Start to level off location. Hit solid rock near grade on location.
8/23/02	Work on road to location-70% complete. Location leveled except for two rock humps which will need to be blasted.
8/24/02	Move in rock drill start drilling blast holes in pit area. Drill steel broke, wait on new steel.
8/25/02	Wait on new drill steel.
8/26/02	Wait on new drill steel.
8/27/02	Finished drilling 450 blast holes, load holes with prell and dynamite. Blast pit area and two rock humps on location.
8/28/02	Push rubble out of pit area with cat. Level and extend location to accommodate CAZA rig #61. Move in Rat hole rig.
8/29/02	Blast rock mound in pit area, finish pushing rubble out of pit. Blade and compact road. Expect to spud well with rat hole rig midday 8/29/02.
8/30/02	Drill Rathole and mousehole. Finish dressing off location. Install pit liner.
8/31/02	Spud well 8/30/02 with Bill Junior's rathole rig. Drill 17 ½" hole to 233'. Run 13 3/8" 48# H-40 casing to 225'. Cement with 220 sacks Class G at 15.6 PPG, 2% CaCl , and ¼# flocele. Circulated 14 bbls to surface. Start moving in CAZA #61.
9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
9/3/02	SDF Labor Day
9/4/02	Continue moving in CAZA rig #61
9/5/02	Rig up CAZA #61.
9/6/02	Rig up CAZA #61, expect to start drilling on 9/6/02.

9/7/02 Finish rigging up CAZA rig #61.

9/8/02 Drill rathole, PU BHA, WO tools, GIH with bit #1 a 11' Security XC33N, Tag at 178', prime pumps, cut drill line, replace wash pipe packing.

9/9/02 PO drilling at 283'.Repair draworks brakes. Begin drilling cement at 04:00 AM 9-9-02. Drill cement from 178' to 225', drill new hole from 225' to 284'. Mud is water.

9/10/02 PO drilling at 1120'. Drill and survey from 284' to 1120'. Surveys: ½ deg at 500', ½ deg at 1050'. WOB 25,000#, 20 RPM, PP 1050 psi. Mud is water

9/11/02 PO Drilling at 2226'. Drill and survey from 1120' to 2226', started getting Gilsonite returns and encountered deviation at approx 2000'. Reduced WOB and started fanning bit to get hole straight again. Surveys: ½ deg at 1402', ½ deg at 1635', 2 ½ deg at 2012', 2 ¾ deg at 2031'. WOB 45,000# - 30,000#, Mud is water, RPM 20+200, PP 1440 psi.

9/12/02 PO Drilling at 3004'. Drill and survey from 2226' to 3004' with bit #1. Surveys: 2 ½ deg at 2197', 2 deg at 2471', 1 ½ deg at 2292', 2 ½ deg at 2924'. MW 8.5ppg, Vis 26, WOB 40, RPM 20+200, PP 1350, GPM 520.

9/13/02 PO Repair swivel packing. Drill and survey from 3004' to 3601' with bit #1. NOTE: had gas kick at 2783'. Surveys: 1 ½ deg at 3172', 2 deg at 3333'. MW 9.0, Vis 41, WOB 45,000#, RPM 20 + 200, PP 1700. Mud slightly cut back due to water flow.

9/14/02 PO Drilling at 3920'. Drill to 3703', raise mud weight to kill influx, circulate out gas and water for 1 hour, POOH for new bit, GIH with bit#2 a security 11'XC33N. Drill and survey from 3703' to 3920'. Surveys: 1 ½ deg at 3633'. MW 9.2, Vis 41, WOB 50,000#, RPM 20+200, PP 1600, GPM 569, Penetration rate 13-20'/hr.

9/15/02 PO Drilling at 4375'. Drill and survey from 3920' to 4375' with bit #2. Surveys: ½ deg at 3896'. ½ deg at 4234'. MW 9.3, Vis 40, RPM 20+200, WOB 45,000#, PP 1650#, GPM 560.

9/16/02 PO Logging at 4558'. Drill and survey from 4375' to 4558' with bit #2. Short trip- no flow. POOH and RU Halliburton Loggers. Surveys: 1 ½ deg at 4296', 1 ¾ deg at 4497', MW 9.6, Vis 41, RPM 25+200, WOB 55,000#, PP 1750#, GPM 555.

9/17/02 PO Laydown Hydril. Finish logging well, GIH to 3000' and circulate out gas. POOH, Run 106 jts of 8 5/8" 32# J-55 special drift ST&C casing to 4558'. RU Halliburton and cement casing with 560 sxs of Hi-Fill at 11.0 ppg, followed by 220 sxs of Class "G" mixed at 15.6 ppg. Performed two top jobs with 150 sxs of Class "G".

9/18/02 PO WO upper kelly cock. ND divertor, cut off wellhead and casing stub, weld on 8 5/8" wellhead and test same. NU 11" 5000# BOPS, test same, Upper kelly cock failed test BLM shut down rig until new one arrives.

9/19/02 PO Drilling at 4872'. Finish testing BOP's and Kelly cock to 5000#, GIH with BHA, TOOH to change motor. GIH with 7 7/8" Security SEB 564. Drill cement and shoe and test formation to 640 psi. Drill from 4558' to 4872'. MW 8.5, Vis 28, FL 19, RPM 60, WOB 45,000#, PP 1200, GPM 358.

9/20/02 PO Drilling at 5503'. Drill Green River from 4872' to 5503' with bit #3. Survey: 2 deg at 4960'. MW 8.7, Vis 26, Ph 11.5, RPM 50+, WOB 45,000#, PP 1250, GPM 343.

9/21/02 PO Drilling at 6068'. Drill Green River and Wasatch formation with bit #3 from 5503' to 6068'. MW 8.8 DAPP, Vis 29, Ph 10, RPM 60+, WOB 45,000#, PP 1250.

9/22/02 PO Drilling at 6536'. Drill Wasatch formation with bit #3 to 6131', POOH and LD 31 jts DP and GIH with bit #4, a security 7 7/8" FM 2555. PU 32 new jts DP and drill to 6536'. MW 8.5 DAPP, Vis 26, PH 8, RPM 60+, WOB 15,000#, PP 1000, GPM 356. Bit #3 made 1573' in 55 hrs.

9/23/02 PO Tripping. Drill Wasatch from 6536' to 7602', pump slug, POOH and LD 20# DP. MW 8.6 DAPP, Vis 28, Ph 7.5, RPM 60+, WOB 10,000#, PP 1000.

9/24/02 PO Drilling at 7769'. LDDP for hardbanding, switch pipe around, GIH with BHA and drill Wasatch formation from 7602' to 7769'. MW 8.7, Vis 30, WOB 35,000#, RPM 60+, PP 1150.

9/25/02 PO Drilling at 8133'. Drill Wasatch formation from 7769' to 8133' with bit #5, a security XS-31. Bit #4, a diamond bit, was pulled green and made 1471' in 30 ½ hrs. MW 8.8, Vis 30, WOB 40,000#, RPM 40+, PP1200.

9/26/02 PO Drilling at 8507'. Drill Wasatch formation from 8133' to 8507'with bit #5. MW 9.1, Vis 30, WOB 46,000#, PP1250, RPM 40+.

9/27/02 PO Tripping for new bit. Drill Wasatch formation from 8507' to 8752' with bit #5, pump slug, POOH. MW 9.1, Vis 38, RPM 40+, PP 1300, Ph 8, Fl 20.

9/28/02 PO Drilling at 8950'. GIH with bit #6, a security XS-33, Drill Wasatch from 8752' to 8950'. MW 9.2, Vis 37, RPM 45+, WOB 48,000#, PP 1450, Bit #5 made 1150' in 78 hrs.

9/29/02 PO Drilling at 9217'. Drilled Wasatch formation from 8950' to 9217'. Made 268' in 24 hrs. MW 9.6, Vis 37, Ph 8, Cl 6100, WOB 47,000#, RPM 46+,

9/30/02 PO Drilling at 9304'. Drill to 9236 with bit #6. POOH for bit #7, a Security XS-44. Drill Mesa Verde from 9236' to 9304'. Made 87' in last 24 hrs. Bit #6 made 484' in 43 hrs. MW 9.9, Vis 38, Fl 13.6, Ph 8.0, Cl 45,000, WOB 48,000#, RPM 46+, PP 1400.

10/1/02 PO Drilling at 9503'. Drill Mesa Verde from 9304' to 9503'. Made 199' in 24 hrs with bit #7. MW 9.8, Vis 39, Fl 16, Cl 55,000, WOB 45,000#, RPM 48+, PP 1400.

10/2/02 PO Drilling at 9706'. Drill Mesa Verde from 9499' to 9706' with bit #7. MW 9.8, Vis 38, Fl 12, Ph 7, WOB 45,000#, RPM 60, PP 1450.

10/3/02 PO Drilling at 9842'. Drill Mesa Verde from 9706' to 9739' POOH for new bit, change motor, test BOP's, and GIH with bit #8, a security XS-44. GIH and drill from 9739' to 9842'. Bit #7 made 503' in 59 ½ hrs. Mw 9.8, Vis 36, Fl 12, Ph 7, WOB 45,000#, RPM 45+

10/4/02 PO Tripping for new bit. Drill Mesa Verde from 9842' to 9970' with bit #8, pump pill, and POOH, GIH with bit #9, a security XS-44. Bit #8 made 231' in 23 hrs and had a bearing failure. MW 10, Vis 40, FL 12, Ph 7.

10/5/02 PO Drilling at 10164'. Drill Mesa Verde from 9970' to 10164' with bit #9, had 3 shows from 9984' to 10115'. MW 10.2, Vis 41, Fl 12, Ph 7, Cl 70,000.

10/6/02 PO Drilling at 10430'. Drill Mesa Verde from 10164' to 10430' with bit #9, had 5 shows from 10174' to 10308'. MW 10.2, Vis 37, Fl 11.2, Cl 70,000, WOB 45,000#, RPM 60+, PP 1550.

10/7/02 PO Drilling at 10700'. Drill Mesa Verde from 10430' to 10700' with bit #9, had 2'-10' flare burning most of the day. Drilled 3 good shows from 10426'-10558'.BGG 850-2500, MW 10.2, Vis 40, Fl 10.6, Ph 7, Cl 70,000, RPM 60+, WOB 45,000#, PP 1600, GPM 341,

10/8/02 PO Drilling at 10788'. Drill Mesa Verde with bit #9 from 10,700' to 10753', pump pill, survey 2 deg at 10,700', POOH and change mud motor and bit. Replace air compressor and GIH with bit #10 , a Security XS-48. Drill from 10,753 to 10786'. Mw 10.2, Vis 42, Fl 9.6, Ph 7, Cl 70,000, WOB 45,000#, RPM 25+, SPM 106, PP 1600. Show #37, 10735-10750' 2520 units, BGG 350-1200 units.

10/9/02 PO Drilling at 10984'. Drill Mesa Verde with bit #10 from 10788' to 10984'. MW 10.2, Vis 40, Fl 9.6, Ph 7, Cl 55,000, WOB 45,000#, RPM 45+, SPM 98, PP 1600. BGG 450-500 units, no shows last 24 hrs.

10/10/02 PO Drilling at 11175'. Drill Mesa Verde with bit #10 from 10984' to 11175'. MW 10.4, Vis 44, Fl 10.2, Ph 7, Cl 57,000 WOB 45,000#, RPM 45+, PP 1600, BGG 600-1500 units, Show #38 11010'-11048' 1450 units, show #39 11116'-11128' 1250 units.

10/11/02 PO Tripping for new bit. Drilled Mesa Verde from 11175' to 11315' with bit #10, pump pill, drop survey, POOH for new bit. Mw 10.9, Vis 48, Fl 10, Ph 7, RPM 45+, WOB 45,000#, PP 1500, SPM 95, BGG 750-2000 units. Show #40 11190'-11232' 2300 units.

10/12/02 PO Drilling at 11353'. Fin POOH, function test BOP'S, GIH with bit # 11 a security XS-48. Drill Mesa Verde from 11315' to 11353'. Bit #10 made 562' in 72 ½ hrs. MW 11.1, Vis 48, Fl 10, Ph 7, Cl 65,000, WOB 45,000#, RPM 55+, PP 1500, SPM 107, BGG 800-1400.

10/13/02 PO Drilling at 11413'. Pump pill, POOH and PU new motor and bit #12, a Security XS-55, GIH and drill from 11353' to 11413'. Bit #11 made 38' in 19 ½ hrs. MW 11.1, Vis 46, Ph 7.5, Cl 75,000, WOB 45, RPM 45+, SPM 91, PP 1400.

10/14/02 PO Drilling at 11561'. Drill Mesa Verde and Castlegate from 11413' to 11561' with bit #12. MW 11.3, Vis 48, Fl 12, Ph 7, Cl 80,000, RPM 40, WOB 45,000#, PP 1500, BGG 500-1500 units.

10/15/02 PO Drilling at 11676. Drill Castle Gate from 11561' to 11639', circulate out gas kick and build weight, drill to 11642' started loosing returns, mix and pump LCM pill, drill to 11676'. MW 11.8, Vis 51, Fl 10, Ph 7, Cl 80,000, RPM 45, WOB 45,000#, PP 1500.
Show #41 11526'-11548' 1600 units
Show #42 11598'-11616' 1700 units
Show #43 11642'-11657' 2250 units

10/16/02 PO GIH with new bit. Drill Castlegate from 11676' to 11703' with bit # 12, bit wore out, 3'-20' flare, circulate and kill well, POOH and lay down motor, PU bit #13, a Security XS-38, GIH with new bit. MW 12.4, Vis 54, FL 10, Ph 7.

10/17/02 PO Drilling at 11775'. TIH with bit #13, correction bit #13 is a XS-48, wash and ream to bottom, no fill, drill Castlegate from 11703' to 11775'. MW 12.5, Vis 56, Fl 11.2, Ph 7, Cl 55,000, WOB 37,000#, RPM 50, PP1350, SPM 94, BGG 250-1100 units
Show # 44 11726'-11734' 1450 units.

10/18/02 PO Drilling at 11863'. Drill Castlegate from 11775' to 11863' with bit #13. MW 12.4, Vis 52, Fl 9, Ph 7, Cl 100,000, RPM 55, WOB48,000#, PP 1450, SPM 100, BGG 650-1800.
Show #45 11832'-11840' 1250-2025-1120 units.

10/19/02 PO SOOH for logs. Drill Castlegate from 11863' to 11875' with bit #13, C&C mud for logs, make short trip, went back to bottom- too gassy, C&C mud and build weight to 12.8 ppg. Short trip, gas OK. SOOH for logs. MW 12.8, Vis 54, Fl 9, Ph 7, Cl 100,000.

GASCO Energy Inc

Daily Completion Report
Federal #23-21-9-19
NESW, Sec. 21, T9S, R19E
Uintah County, Utah

43-047-34199

Federal 23-21-9-19
Daily Drilling Report

Distribution list: M. Decker, M. Erickson, R. Dean, H. Sharpe, J. Longwell, Phillips Petroleum, and Halliburton

8/21/02	Notify Ed Forsman, Vernal BLM of intent to begin location construction.
8/22/02	MI Huffman construction. Start building road from 31-29 to new location. Start to level off location. Hit solid rock near grade on location.
8/23/02	Work on road to location-70% complete. Location leveled except for two rock humps which will need to be blasted.
8/24/02	Move in rock drill start drilling blast holes in pit area. Drill steel broke, wait on new steel.
8/25/02	Wait on new drill steel.
8/26/02	Wait on new drill steel.
8/27/02	Finished drilling 450 blast holes, load holes with prell and dynamite. Blast pit area and two rock humps on location.
8/28/02	Push rubble out of pit area with cat. Level and extend location to accommodate CAZA rig #61. Move in Rat hole rig.
8/29/02	Blast rock mound in pit area, finish pushing rubble out of pit. Blade and compact road. Expect to spud well with rat hole rig midday 8/29/02.
8/30/02	Drill Rathole and mousehole. Finish dressing off location. Install pit liner.
8/31/02	Spud well 8/30/02 with Bill Junior's rathole rig. Drill 17 ½" hole to 233'. Run 13 3/8" 48# H-40 casing to 225'. Cement with 220 sacks Class G at 15.6 PPG, 2% CaCl , and ¼# flocele. Circulated 14 bbls to surface. Start moving in CAZA #61.
9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
9/3/02	SDF Labor Day
9/4/02	Continue moving in CAZA rig #61
9/5/02	Rig up CAZA #61.
9/6/02	Rig up CAZA #61, expect to start drilling on 9/6/02.

9/7/02 Finish rigging up CAZA rig #61.

9/8/02 Drill rathole, PU BHA, WO tools, GIH with bit #1 a 11' Security XC33N, Tag at 178', prime pumps, cut drill line, replace wash pipe packing.

9/9/02 PO drilling at 283'.Repair draworks brakes. Begin drilling cement at 04:00 AM 9-9-02. Drill cement from 178' to 225', drill new hole from 225' to 284'. Mud is water.

9/10/02 PO drilling at 1120'. Drill and survey from 284' to 1120'. Surveys: ½ deg at 500', ½ deg at 1050'. WOB 25,000#, 20 RPM, PP 1050 psi. Mud is water

9/11/02 PO Drilling at 2226'. Drill and survey from 1120' to 2226', started getting Gilsonite returns and encountered deviation at approx 2000'. Reduced WOB and started fanning bit to get hole straight again. Surveys: ½ deg at 1402', ½ deg at 1635', 2 ½ deg at 2012', 2 ¾ deg at 2031'. WOB 45,000# - 30,000#, Mud is water, RPM 20+200, PP 1440 psi.

9/12/02 PO Drilling at 3004'. Drill and survey from 2226' to 3004' with bit #1. Surveys: 2 ½ deg at 2197', 2 deg at 2471', 1 ½ deg at 2292', 2 ½ deg at 2924'. MW 8.5ppg, Vis 26, WOB 40, RPM 20+200, PP 1350, GPM 520.

9/13/02 PO Repair swivel packing. Drill and survey from 3004' to 3601' with bit #1. NOTE: had gas kick at 2783'. Surveys: 1 ½ deg at 3172', 2 deg at 3333'. MW 9.0, Vis 41, WOB 45,000#, RPM 20 + 200, PP 1700. Mud slightly cut back due to water flow.

9/14/02 PO Drilling at 3920'. Drill to 3703', raise mud weight to kill influx, circulate out gas and water for 1 hour, POOH for new bit, GIH with bit#2 a security 11'XC33N. Drill and survey from 3703' to 3920'. Surveys: 1 ½ deg at 3633'. MW 9.2, Vis 41, WOB 50,000#, RPM 20+200, PP 1600, GPM 569, Penetration rate 13-20'/hr.

9/15/02 PO Drilling at 4375'. Drill and survey from 3920' to 4375' with bit #2. Surveys: ½ deg at 3896'. ½ deg at 4234'. MW 9.3, Vis 40, RPM 20+200, WOB 45,000#, PP 1650#, GPM 560.

9/16/02 PO Logging at 4558'. Drill and survey from 4375' to 4558' with bit #2. Short trip- no flow. POOH and RU Halliburton Loggers. Surveys: 1 ½ deg at 4296', 1 ¾ deg at 4497', MW 9.6, Vis 41, RPM 25+200, WOB 55,000#, PP 1750#, GPM 555.

9/17/02 PO Laydown Hydril. Finish logging well, GIH to 3000' and circulate out gas. POOH, Run 106 jts of 8 5/8" 32# J-55 special drift ST&C casing to 4558'. RU Halliburton and cement casing with 560 sxs of Hi-Fill at 11.0 ppg, followed by 220 sxs of Class "G" mixed at 15.6 ppg. Performed two top jobs with 150 sxs of Class "G".

9/18/02 PO WO upper kelly cock. ND divertor, cut off wellhead and casing stub, weld on 8 5/8" wellhead and test same. NU 11" 5000# BOPS, test same, Upper kelly cock failed test BLM shut down rig until new one arrives.

9/19/02 PO Drilling at 4872'. Finish testing BOP's and Kelly cock to 5000#, GIH with BHA, TOOH to change motor. GIH with 7 7/8" Security SEB 564. Drill cement and shoe and test formation to 640 psi. Drill from 4558' to 4872'. MW 8.5, Vis 28, FL 19, RPM 60, WOB 45,000#, PP 1200, GPM 358.

9/20/02 PO Drilling at 5503'. Drill Green River from 4872' to 5503' with bit #3. Survey: 2 deg at 4960'. MW 8.7, Vis 26, Ph 11.5, RPM 50+, WOB 45,000#, PP 1250, GPM 343.

9/21/02 PO Drilling at 6068'. Drill Green River and Wasatch formation with bit #3 from 5503' to 6068'. MW 8.8 DAPP, Vis 29, Ph 10, RPM 60+, WOB 45,000#, PP 1250.

9/22/02 PO Drilling at 6536'. Drill Wasatch formation with bit #3 to 6131', POOH and LD 31 jts DP and GIH with bit #4, a security 7 7/8" FM 2555. PU 32 new jts DP and drill to 6536'. MW 8.5 DAPP, Vis 26, PH 8, RPM 60+, WOB 15,000#, PP 1000, GPM 356. Bit #3 made 1573' in 55 hrs.

9/23/02 PO Tripping. Drill Wasatch from 6536' to 7602', pump slug, POOH and LD 20# DP. MW 8.6 DAPP, Vis 28, Ph 7.5, RPM 60+, WOB 10,000#, PP 1000.

9/24/02 PO Drilling at 7769'. LDDP for hardbanding, switch pipe around, GIH with BHA and drill Wasatch formation from 7602' to 7769'. MW 8.7, Vis 30, WOB 35,000#, RPM 60+, PP 1150.

9/25/02 PO Drilling at 8133'. Drill Wasatch formation from 7769' to 8133' with bit #5, a security XS-31. Bit #4, a diamond bit, was pulled green and made 1471' in 30 ½ hrs. MW 8.8, Vis 30, WOB 40,000#, RPM 40+, PP1200.

9/26/02 PO Drilling at 8507'. Drill Wasatch formation from 8133' to 8507'with bit #5. MW 9.1, Vis 30, WOB 46,000#, PP1250, RPM 40+.

9/27/02 PO Tripping for new bit. Drill Wasatch formation from 8507' to 8752' with bit #5, pump slug, POOH. MW 9.1, Vis 38, RPM 40+, PP 1300, Ph 8, Fl 20.

9/28/02 PO Drilling at 8950'. GIH with bit #6, a security XS-33, Drill Wasatch from 8752' to 8950'. MW 9.2, Vis 37, RPM 45+, WOB 48,000#, PP 1450, Bit #5 made 1150' in 78 hrs.

9/29/02 PO Drilling at 9217'. Drilled Wasatch formation from 8950' to 9217'. Made 268' in 24 hrs. MW 9.6, Vis 37, Ph 8, Cl 6100, WOB 47,000#, RPM 46+,

9/30/02 PO Drilling at 9304'. Drill to 9236 with bit #6. POOH for bit #7, a Security XS-44. Drill Mesa Verde from 9236' to 9304'. Made 87' in last 24 hrs. Bit #6 made 484' in 43 hrs. MW 9.9, Vis 38, Fl 13.6, Ph 8.0, Cl 45,000, WOB 48,000#, RPM 46+, PP 1400.

10/1/02 PO Drilling at 9503'. Drill Mesa Verde from 9304' to 9503'. Made 199' in 24 hrs with bit #7. MW 9.8, Vis 39, Fl 16, Cl 55,000, WOB 45,000#, RPM 48+, PP 1400.

10/2/02 PO Drilling at 9706'. Drill Mesa Verde from 9499' to 9706' with bit #7. MW 9.8, Vis 38, Fl 12, Ph 7, WOB 45,000#, RPM 60, PP 1450.

10/3/02 PO Drilling at 9842'. Drill Mesa Verde from 9706' to 9739' POOH for new bit, change motor, test BOP's, and GIH with bit #8, a security XS-44. GIH and drill from 9739' to 9842'. Bit #7 made 503' in 59 ½ hrs. Mw 9.8, Vis 36, Fl 12, Ph 7, WOB 45,000#, RPM 45+

10/4/02 PO Tripping for new bit. Drill Mesa Verde from 9842' to 9970' with bit #8, pump pill, and POOH, GIH with bit #9, a security XS-44. Bit #8 made 231' in 23 hrs and had a bearing failure. MW 10, Vis 40, FL 12, Ph 7.

10/5/02 PO Drilling at 10164'. Drill Mesa Verde from 9970' to 10164' with bit #9, had 3 shows from 9984' to 10115'. MW 10.2, Vis 41, Fl 12, Ph 7, Cl 70,000.

10/6/02 PO Drilling at 10430'. Drill Mesa Verde from 10164' to 10430' with bit #9, had 5 shows from 10174' to 10308'. MW 10.2, Vis 37, Fl 11.2, Cl 70,000, WOB 45,000#, RPM 60+, PP 1550.

10/7/02 PO Drilling at 10700'. Drill Mesa Verde from 10430' to 10700' with bit #9, had 2'-10' flare burning most of the day. Drilled 3 good shows from 10426'-10558'.BGG 850-2500, MW 10.2, Vis 40, Fl 10.6, Ph 7, Cl 70,000, RPM 60+, WOB 45,000#, PP 1600, GPM 341,

10/8/02 PO Drilling at 10788'. Drill Mesa Verde with bit #9 from 10,700' to 10753', pump pill, survey 2 deg at 10,700', POOH and change mud motor and bit. Replace air compressor and GIH with bit #10 , a Security XS-48. Drill from 10,753 to 10786'. Mw 10.2, Vis 42, Fl 9.6, Ph 7, Cl 70,000, WOB 45,000#, RPM 25+, SPM 106, PP 1600. Show #37, 10735-10750' 2520 units, BGG 350-1200 units.

10/9/02 PO Drilling at 10984'. Drill Mesa Verde with bit #10 from 10788' to 10984'. MW 10.2, Vis 40, Fl 9.6, Ph 7, Cl 55,000, WOB 45,000#, RPM 45+, SPM 98, PP 1600. BGG 450-500 units, no shows last 24 hrs.

10/10/02 PO Drilling at 11175'. Drill Mesa Verde with bit #10 from 10984' to 11175'. MW 10.4, Vis 44, Fl 10.2, Ph 7, Cl 57,000 WOB 45,000#, RPM 45+, PP 1600, BGG 600-1500 units, Show #38 11010'-11048' 1450 units, show #39 11116'-11128' 1250 units.

10/11/02 PO Tripping for new bit. Drilled Mesa Verde from 11175' to 11315' with bit #10, pump pill, drop survey, POOH for new bit. Mw 10.9, Vis 48, Fl 10, Ph 7, RPM 45+, WOB 45,000#, PP 1500, SPM 95, BGG 750-2000 units. Show #40 11190'-11232' 2300 units.

10/12/02 PO Drilling at 11353'. Fin POOH, function test BOP'S, GIH with bit # 11 a security XS-48. Drill Mesa Verde from 11315' to 11353'. Bit #10 made 562' in 72 ½ hrs. MW 11.1, Vis 48, Fl 10, Ph 7, Cl 65,000, WOB 45,000#, RPM 55+, PP 1500, SPM 107, BGG 800-1400.

10/13/02 PO Drilling at 11413'. Pump pill, POOH and PU new motor and bit #12, a Security XS-55, GIH and drill from 11353' to 11413'. Bit #11 made 38' in 19 ½ hrs. MW 11.1, Vis 46, Ph 7.5, Cl 75,000, WOB 45, RPM 45+, SPM 91, PP 1400.

10/14/02 PO Drilling at 11561'. Drill Mesa Verde and Castlegate from 11413' to 11561' with bit #12. MW 11.3, Vis 48, Fl 12, Ph 7, Cl 80,000, RPM 40, WOB 45,000#, PP 1500, BGG 500-1500 units.

10/15/02 PO Drilling at 11676. Drill Castle Gate from 11561' to 11639', circulate out gas kick and build weight, drill to 11642' started loosing returns, mix and pump LCM pill, drill to 11676'. MW 11.8, Vis 51, Fl 10, Ph 7, Cl 80,000, RPM 45, WOB 45,000#, PP 1500.
Show #41 11526'-11548' 1600 units
Show #42 11598'-11616' 1700 units
Show #43 11642'-11657' 2250 units

10/16/02 PO GIH with new bit. Drill Castlegate from 11676' to 11703' with bit # 12, bit wore out, 3'-20' flare, circulate and kill well, POOH and lay down motor, PU bit #13, a Security XS-38, GIH with new bit. MW 12.4, Vis 54, FL 10, Ph 7.

10/17/02 PO Drilling at 11775'. TIH with bit #13, correction bit #13 is a XS-48, wash and ream to bottom, no fill, drill Castlegate from 11703' to 11775'. MW 12.5, Vis 56, Fl 11.2, Ph 7, Cl 55,000, WOB 37,000#, RPM 50, PP1350, SPM 94, BGG 250-1100 units
Show # 44 11726'-11734' 1450 units.

10/18/02 PO Drilling at 11863'. Drill Castlegate from 11775' to 11863' with bit #13. MW 12.4, Vis 52, Fl 9, Ph 7, Cl 100,000, RPM 55, WOB48,000#, PP 1450, SPM 100, BGG 650-1800.
Show #45 11832'-11840' 1250-2025-1120 units.

10/19/02 PO SOOH for logs. Drill Castlegate from 11863' to 11875' with bit #13, C&C mud for logs, make short trip, went back to bottom- too gassy, C&C mud and build weight to 12.8 ppg. Short trip, gas OK. SOOH for logs. MW 12.8, Vis 54, Fl 9, Ph 7, Cl 100,000.

10/20/02 PO Circ & Cond mud. Pump Pill, POOH, RU Halliburton and log well with GR-SP-DPN-SPL-DLL-MSF, LTD 11862'. RD loggers, cut drill line, GIH and C&C mud. MW 12.8, Vis 55, Fl 9, Ph 7.

10/21/02 PO Circulating. C&C mud, RU West States casers, LDDP, RU and run 275 jts of 4 ½" 13.5# P-110, LT&C casing to 11875'. Circulate mud and RU Halliburton cementers.

10/22/02 PO Rigging down CAZA #61. Halliburton Mixed and pumped: 220 sxs of Hi-Fill Mod mixed at 11 ppg, followed by 2218 sacks of 50/50 Poz with 3% gell, .5% Halad 322, .2% super CBL, .2% HR-5, was supposed to be mixed at 14.3 ppg, but could not mix over 13.5-13.8 ppg before it got too thick to pump. Pump truck one broke down, changed pump truck out, resumed pumping tail slurry, most of job pumped at 13.3 ppg, had cement returns to surface 20 bbls before bumping plug. Cleaned mud tanks, set slips, cut casing. RR at 6:00PM 10/21/02.

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.
UTU-78433

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA/Agreement, Name and/or No.
N/A

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
FEDERAL 23-21-9-19

2. Name of Operator
Pannonian Energy, Inc. (a wholly-owned subsidiary of GASCO ENERGY)

9. API Well No.
43-047-34199

3a. Address **14 Inverness Drive East, Ste. H-236**
Englewood, CO 80112

3b. Phone No. *(include area code)*
303-483-0044

10. Field and Pool, or Exploratory Area
Riverbend

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
2139' FSL & 1991' FWL (NE/SW)
Section 21, T09S-R19E

11. County or Parish, State
Uintah County, Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☒ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

Pannonian Energy has begun gas sales from the Federal 23-21-9-19 well from the Castlegate formation on December 23, 2002. Gas sales are being made through Phillips Petroleum gathering systems into Dominion Explorations gathering system where it is compressed and delivered into Questar's Interstate Pipeline.

14. I hereby certify that the foregoing is true and correct

Name *(Printed/Typed)*	Title
John Longwell	Operations Manager
Signature	Date
	December 30, 2002

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED
JAN 07 2003
DIV. OF OIL, GAS & MINING

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.: **UTU-78433**
6. If Indian, Allottee or Tribe Name: **N/A**
7. If Unit or CA/Agreement, Name and/or No.: **N/A**
8. Well Name and No.: **FEDERAL 23-21-9-19**
9. API Well No.: **43-047-34199**
10. Field and Pool, or Exploratory Area: **Riverbend**
11. County or Parish, State: **Uintah County, Utah**

1. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other
2. Name of Operator: **PANNONIAN ENERGY, INC. (a wholly owned susidiary of GASCO ENERGY)**
3a. Address: **14 Inverness Dr. E., Ste. H-236, Englewood, CO 80112**
3b. Phone No. *(include area code)*: **303-483-0044**
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*: **2139' FSL & 1991' FWL (NE/SW) Section 21, T09S-R19E**

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other **Site Security Facility Diagram**
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

Attached is the Site Security and/or Production Facility Diagram(s) for the Federal 23-21-9-19 well.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

14. I hereby certify that the foregoing is true and correct

Name *(Printed/Typed)*: **John Longwell** — Title: **Operations Manager**

Signature: J Longwell — Date: **April 8, 2003**

THIS SPACE FOR FEDERAL OR STATE USE

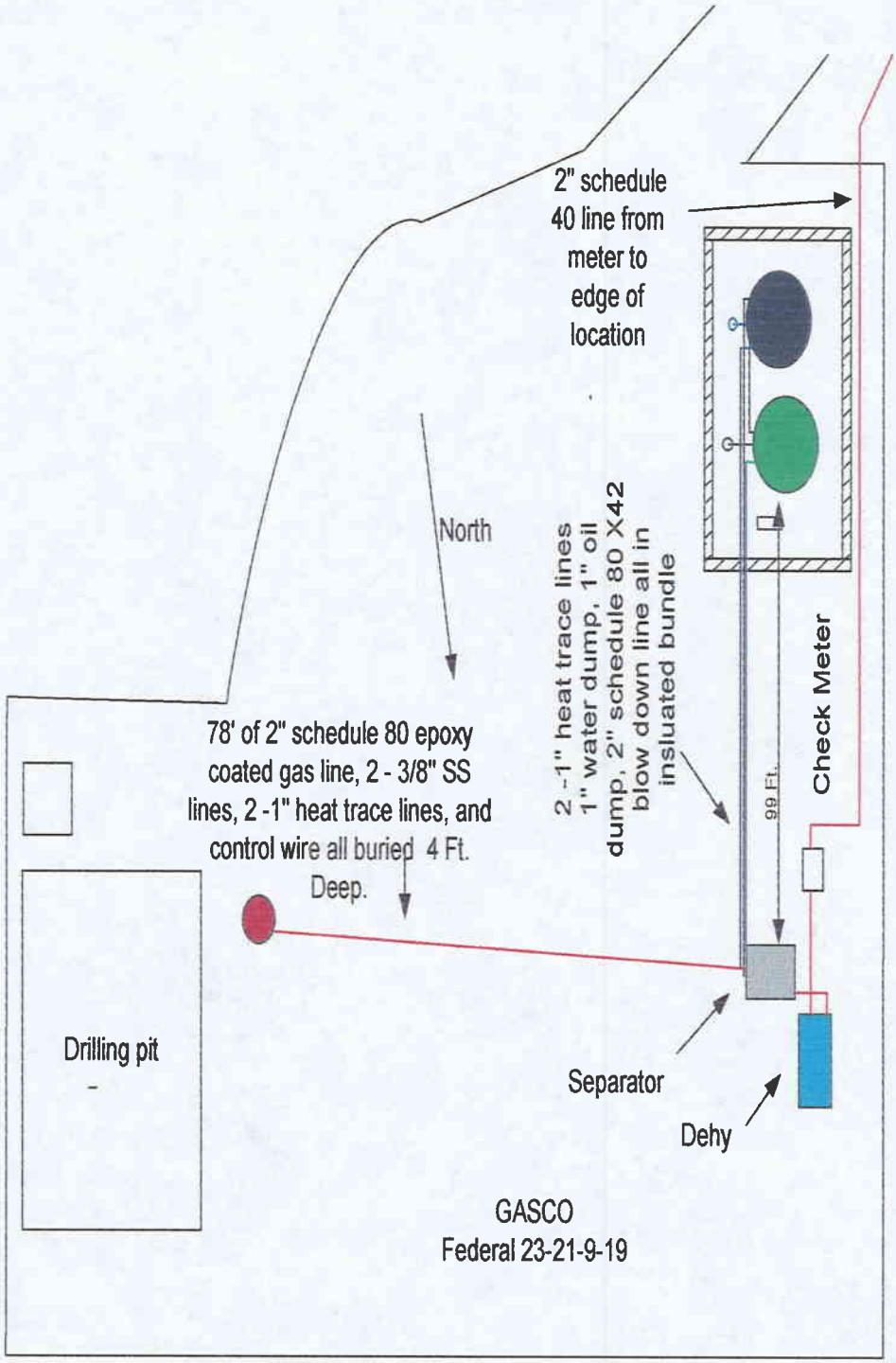
Approved by — Title — Date

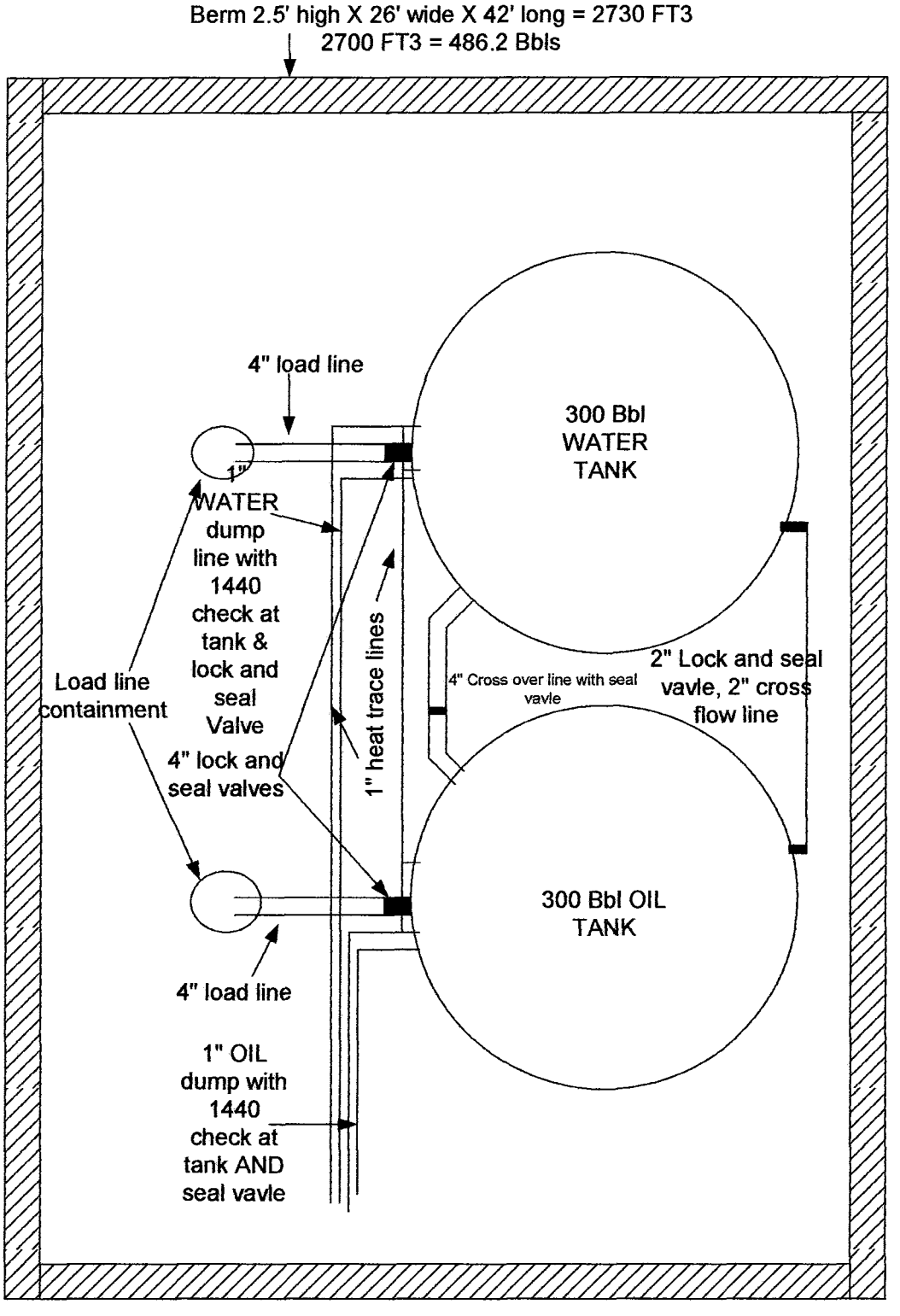
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. — Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED
APR 17 2003
DIV. OF OIL, GAS & MINING


2" schedule 40 line from meter to edge of location
North
2 -1" heat trace lines 1" water dump, 1" oil dump, 2" schedule 80 X42 blow down line all in insluated bundle
78' of 2" schedule 80 epoxy coated gas line, 2 - 3/8" SS lines, 2 -1" heat trace lines, and control wire all buried 4 Ft. Deep.
99 Ft.
Check Meter
Drilling pit
Separator
Dehy
GASCO
Federal 23-21-9-19



GASCO Federal 23-21-9-19

I certify that these expenses were necessary
and for the benefit of the company.

Cash Expenditure Report

7/11/2003

Employee Name (First,M.I.,Last)________________________________

Employee Signature ___________ Barbara Calerdine

GASCO Energy Inc

DATE	PAID TO & EXPLANATION	Auto	Parking/Tolls	Travel and Lodging	Travel Meals	Entertainment	Maps & Reports	Printing and Reproduction	Office Supplies	Cellular Phone	Other	Total
7/11/2003	OfficeMax & For office supplies								$38.95			$38.95
												$0.00
												$0.00
												$0.00
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												$0.00
	Mileage Report											$0.00
												$0.00
												$0.00
	Mileage rate	$0.36										
	Miles =											
		0.00										$0.00
	TOTALS	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$38.95	$0.00	$0.00	$38.95

Authorization:________________________________

Date:________________

G:\homedir\aas\exprpt98.xls

12/03/02	MI J&R construction. Cln loc. Fill in cellar & mousehole. WO prod'n tnks & separator.	
	DC: $ 1,284	CC: $ 1,284
12/04/02	No activity.	
	DC: $ 303	CC: $ 1,584
12/05/02	Bldg prod'n fac. UL PL pipe off trucks & set prod'n tnks. WO last load of pipe and separator.	
	DC: $ 4,919	CC: $ 6,503
12/06/02	MI & UL separator, dehydrator & parts. MI, UL & install flwback manifold. Lay out flwback lines. MI frac tnks.	
	DC: $ 2,650	CC: $ 9,153
12/07/02	RU CTU. RIH & cln out to PBTD @ 11,830'. POH. RD mud motor. Blw tbg dry. RD.	
	DC: $35,168	CC: $44,320
12/08/02	SDFS. No activity.	
	DC: $ 304	CC: $44,625
12/09/02	SDFS. No activity.	
	DC: $ 304	CC: $44,929
12/10/02	Install walkway & stairs. Install heat trace loop in tnks. Weld 30 jts PL.	
	DC: $ 4,580	CC: $49,509
12/11/02	Bld prod'n fac. Plumb in heat trace lines. Set separator. Plumb in blw dwn line to wtr tnk. Weld 30 jts.	
	DC: $ 1,510	CC $ 51,018
12/12/02	Bld prod'n fac. Weld flw line. Make-up 1" heat trace line to WH. Dig trench fr/ WH to separator. Plumb in heat trace pmp.	
	DC: $24,869	CC: $75,888
12/13/02	Fin welding 8" PL to road crossing. Fin flw line & heat trace lines to WH & install. Cover trench. MI & spot frac tnks. Start hook-up on dehy. Weld flw line fr/separator to dehy.	
	DC: $10,528	CC: $86,416
12/14/02	Fin PL tie-in to #42-29. Install meter run & fin all welding & heat trace. Start filling frac tnks w/3% KCl.	
	DC: $ 1,750	CC: $88,165
12/15/02	Haul frac wtr. Fin filling frac tnks.	
	DC: $ 1,969	CC: $90,134
12/16/02	SDFS.	
	DC: $ 598	CC: $90,732
12/17/02	Run dmp vlv lines. Plumb wtr & oil tnks. Install vlvs in 8" PL.	
	DC: $ 1,879	CC: $92,611
12/18/02	PT csg to 8700#/30 min - tst gd. RU HLS WL. RIH w/CCL, GR, Neutron logging tools. Log up to 11,475'-6,000'. POH. LD logging tools. RIH w/perf guns. **Perf Castlegate fr/ 11,661'-64' & 11,635'-38',** w/2½" scalloped gun, 11 gr mill charges, 0.32" EHD, 120° phasing, 2 spf, total 14 shots. RDWL. Heat wtr for frac. Roll tnk w/meth.	
	DC: $15,046	CC: $107,657
12/19/02	Pmp step dwn 262 gal 3% KCl w/10% meth, brk @ 4859 psi. Kick rate up to 18.5 BPM @ 5600#. Pmp 9700 gal 3% KCl w/10% meth. Step dwn to 10 BPM @ 4850 psi, pmp 525 gal 3% KCl w/10% meth. Step dwn to 3.7 BPM @ 4120 psi, pmp 399 gal 3% KCl w/10%	

meth. ISIP 3750 psi, 5 min 3627 psi-10 min 3588 psi-15 min 3564 psi. Calc open perfs, found 9 open of 14 shot. Frac CG fmn as follows:

Stage 1 - Pmp Pad
12000 gal 25# Delta 200 @ 17.9 BPM @ AIP 5421 psi
Stage 2
Pmp 14008 gal 25# Delta 200 1-2.2 ppg 20/40 Ottowa #12701 prop in stage
AIR 17.9 BPM @ AIP 4965 psi
Stage 3
Pmp 41003 gal 25# Delta 200 2.2-4 ppg 20/40 Ottowa #23750 prop in stage
AIR 18.0 BPM @ AIP 4422 psi
Stage 4
Pmp 9340 gal 25# Delta 200 4-5 ppg 20/40 AcFrac PR-6000 #27869 prop in Stage. AIR 20.3 BPM @ AIP 4320 psi.
Stage 5 - Flush
Pmp 7210 gal 10# Delta 200 frac fluid. Stop flush 2 bbls short of top shot.
AIR 18.0 BPM @ AIP 4600 psi.

Job total: Pmpd 10826 gals 3% KCl w/10% meth. Frac w/83561 gals proppant & 200,000# sd (150,000# 20/40 Ottowa + 50,000# AcFrac PR-6000). ISIP 4700 psi-5 min 4507 psi. RD frac iron. Start flwback on 8/64" chk. Change chk to 10/64", hvy gel & sd. Cut out nipple & chk in flwback line & change out to 8/64". Flwback frac. IFP 4100 psi, FFP 2975 psi, ARO 37 BPH, tr sd & med gel. TBLWTR 2270, BLWR 544, BLWLTR 1726.

DC: $118,369 CC: $226,027

12/20/02 Flw back frac.

Time	Choke	FTP #	BPH	
07:00	8/64"	2900	35	Lt gel, no sd
08:00	10/64"	2800	39	Lt gel
09:00	10/64"	2700	43	Broke gel
10:00	10/64"	2625	43	Broke gel
11:00	10/64"	2550	44	Broke gel
12:00	10/64"	2450	44	Broke gel
13:00	10/64"	2250	43	Broke gel
14:00	10/64"	2250	43	Broke gel
15:00	10/64"	2175	24	Broke gel
16:00	10/64"	2100	48	Broke gel
17:00	10/64"	2000	45	Broke gel
18:00	10/64"	1900	48	Broke gel
19:00	10/64"	1750	38	Broke gel
20:00	10/64"	1700	29	Broke gel
21:00	10/64"	1600	27	Broke gel
22:00	10/64"	1550	29	Broke gel
23:00	10/64"	1450	30	Broke gel
24:00	10/64"	1400	26	Broke gel
01:00	10/64"	1300	26	Broke gel
02:00	10/64"	1250	28	Broke gel
03:00	10/64"	1150	29	Broke gel
04:00	10/64"	1100	19	Broke gel, first gas
05:00	10/64"	1100	24	Broke gel
06:00	10/64"	950	19	Chg chk to 8/64"

BLWR 828, TBLWR 1372, BLWLTR 898. Tst PL to 560 psi. SION.

12/21/02 Flw back frac.

Time	Choke	FTP #	BPH	
07:00	8/64"	1150	20	Wtr w/slight gas
08:00	8/64"	1120	14	Wtr w/gas
09:00	8/64"	1100	19	Wtr w/gas
10:00	8/64"	1050	17	Wtr w/gas
11:00	8/64"	1030	13	Wtr w/gas
12:00	14/64"	1020	19	Wtr w/gas

12/21/02 (cont.)

Time	Choke	FTP #	BPH	
13:00	14/64"	600	31	Wtr w/gas
14:00	14/64"	580	26	Wtr w/gas
15:00	14/64"	580	28	Wtr w/gas
16:00	14/64"	650	30	Wtr w/gas
17:00	14/64"	540	18	Wtr w/gas
18:00	14/64"	500	21	Wtr w/slight incr in gas
19:00	14/64"	500	18	Wtr w/gas
20:00	14/64"	500	17	Wtr w/gas
21:00	14/64"	500	17	Wtr w/gas
22:00	14/64"	500	22	Wtr w/gas
23:00	14/64"	500	13	Wtr w/gas
24:00	14/64"	500	12	Wtr w/gas
01:00	14/64"	500	18	Wtr w/gas
02:00	14/64"	500	15	Wtr w/gas
03:00	14/64"	500	19	Wtr w/gas
04:00	14/64"	500	14	Wtr w/gas
05:00	14/64"	500	15	Wtr w/gas
06:00	14/64"	500	9	Wtr w/gas

TBLWR 1798, BLWLTR 453.
DC: $ 3,343 CC: $236,233

12/22/02 Flw back frac

Time	Choke	FTP #	BPH	
07:00	14/64"	475	20	Wtr w/slight gas
08:00	14/64"	450	16	Wtr w/gas
09:00	14/64"	450	18	Wtr w/gas
10:00	14/64"	450	19	Wtr w/gas
11:00	14/64"	450	13	Wtr w/gas, Cl 11120, pH 7
12:00	14/64"	440	9	Wtr w/gas
13:00	14/64"	440	13	Wtr w/gas
14:00	14/64"	450	12	Wtr w/gas
15:00	14/64"	420	9	Wtr w/gas
16:00	14/64"	430	9	Wtr w/gas
17:00	14/64"	410	13	Wtr w/gas
18:00	14/64"	400	8	Wtr w/gas
19:00	14/64"	400	17	Wtr w/gas
20:00	14/64"	375	8	Wtr w/gas
21:00	14/64"	375	9	Wtr w/gas, Cl 10700, ph 7
22:00	14/64"	375	18	Wtr w/gas
23:00	14/64"	350	5	Wtr w/gas
24:00	14/64"	360	9	Wtr w/gas
01:00	14/64"	360	15	Wtr w/gas
02:00	14/64"	370	10	Wtr w/gas
03:00	14/64"	360	9	Wtr w/gas
04:00	14/64"	360	10	Wtr w/gas, wtr slugging
05:00	14/64"	355	5	Wtr w/gas, Cl 9000, ph 7.5
06:00	14/64"	355	4	Wtr w/gas

BLWR 278, TBLWR 2095, BLWLTR 175. Gas rate estimate @ ±300 MCFD. Wtr slugging into tnk, sml slugs about every 20-30 secs.
DC: $ 3,703 CC: $239,937

12/23/02 Flw back frac.

Time	Choke	FTP #	BPH	
07:00	14/64"	355	10	Slugs, wtr & gas
08:00	14/64"	355	10	Slugs, wtr & gas
09:00	14/64"	355	9	Slugs, wtr & gas
10:00	14/64"	350	7	Slugs, wtr & gas
12:00	14/64"	340	4	Slugs, wtr & gas
13:00	14/64"	340	13	Slugs, wtr & gas

12/23/02 (cont.)

Time	Choke	FTP #	BPH	
11:00	14/64"	355	9	Slugs, wtr & gas
14:00	14/64"	330	9	Slugs, wtr & gas, Cl 8000, ph 7.0
15:00	14/64"	330	9	Slugs, wtr & gas
16:00	14/64"	330	8	Slugs, wtr & gas
17:00	14/64"	320	9	Slugs, wtr & gas
18:00	14/64"	315	4	Slugs, wtr & gas
19:00	14/64"	310	9	Slugs, wtr & gas
20:00	14/64"	305	9	Slugs, wtr & gas
21:00	14/64"	300	9	Slugs, wtr & gas
22:00	14/64"	300	5	Slugs, wtr & gas, Cl 8000, ph 7.5
23:00	14/64"	295	9	Slugs, wtr & gas
24:00	14/64"	295	5	Slugs, wtr & gas
01:00	14/64"	295	10	Slugs, wtr & gas
02:00	14/64"	290	10	Slugs, wtr & gas
03:00	14/64"	295	4	Slugs, wtr & gas
04:00	14/64"	290	4	Slugs, wtr & gas
05:00	14/64"	280	10	Slugs, wtr & gas, Cl 7000, ph 7.0
06:00	14/64"	280	9	Slugs, wtr & gas

BLWR 175, TBLWR 2270. Gas rate estimate @ ±200 MCFD.
DC: $ 3,343 CC: $243,280

12/24/02 Flw back frac.

Time	Choke	FTP #	BPH	
07:00	14/64"	275	10	Slugs, wtr & gas
08:00	14/64"	275	5	Slugs, wtr & gas
09:00	14/64"	275	5	Slugs, wtr & gas
10:00	14/64"	275	4	Slugs, wtr & gas
11:00	14/64"	275	4	Slugs, wtr & gas

SI f/PBU. Open to sep on 10/64" chk to press up sep & Dehy. **Turn gas dwn sales line on 14/64" chk, FTP fr/ 480 psi-120 psi, spot reading fr/ 36 MCFD-123 MCFD, LP 92 psi.** Glychol pmp not functioning. WO pmp that will lower press. Will repair dmp on sep.
DC: $ 3,343 CC: $246,624

12/25/02 Flw well to sep. Re-plumb heat trace line output. LP 150 psi. SI f/PBU.
DC: $ 3,343 CC: $249,967

12/26/02 SI f/PBU.
DC: $ 570 CC: $250,537

12/27/02 SICP 700 psi. Re-plumb wtr & oil dmp line. Turn well to sep on 8/64" chk & press up sep & dehy. Well making all wtr. Lost gas press. Turn well to tst tnk on 14/64" chk.

Time	Choke	FTP #	BPH	
13:00	10/64"	700		Open to sep
14:00	14/64"	500		Open to tst tnk
15:00	14/64"	400	17	
16:00	14/64"	180	13	Chng out chk
17:00	18/64"	180	26	
18:00	18/64"	280	43	
19:00	18/64"	550	12	
20:00			10	SI to bld gas

WSI. Drain flw back manifold & use gas to blw dry. Blw line from WH to sep dry w/gas. Heat frac tnks to thaw out frzn dmp lines.
DC: $10,595 CC: $261,131

12/28/02 PU stainless tbg & fittings. Thaw out frzn dmp lines. Open to gas sales line on 14/64" chk/5 hrs, 32 BW. Spot sales rate 80 MCFD.
DC: $ 6,263 CC: $267,394

12/29/02 Flwg to sales on 18/64" chk, 82 MCFD [spot flw rate 92 MCFD], 2 BO & 199 BW, FCP 375 psi, LP 281 psi. Chl 7600, pH 7.0.
DC: $ 1,880 CC: $269,274

12/30/02 Flw to sales on 18/64" chk, 21 MCFD, 0 BC, 0 BW, FCP 50 psi, LP 52 psi.
DC: $ 660 CC: $269,933

12/31/02 SIW.
DC: $ 660 CC: $270,593

01/01/03 SI f/PBU.
DC: $ 660 CC: $271,252

01/02/03 SI f/PBU.
DC: $ 660 CC: $271,912

01/03/03 That frzn vlvs on flw back manifold. Open well on 10/64" chk to tst tnk. Gas press came off in 1 min & brought dwn wtr well press dwn to 100 psi. Open chk to 26/64":

Time	Choke	FTP #	BBLS	
11:00	26/64"	50		
12:00	26/64"	75	49	
13:00	26/64"	150	39	
14:00	26/64"	550	64	
15:00	24/64"	650	42	
16:00	24/64"	400	24	CL 10800, pH 7.0
17:00	24/64"	75	15	Press dropped to 25 psi
18:00	24/64"	100	5	
19:00	24/64"	75	4	Wtr thru chk/30 secs then gas/5 secs. Hauled out 228 BW
20:00	24/64"	75	13	Wtr thru chk/20 secs; gas/10 secs.
21:00	open	50	25	Gas & wtr slugs
22:00	open	0		No flw
23:00	open		9	No flw

Est gas 10% w/90% wtr coming thru chk. SI f/PBU. Drain lines & put some meth in flw back manifold.
DC: $ 1,963 CC: $273,875

01/04/03 SI f/PBU. SICP 800 psi. Open to tst tnk on 14/64" chk. Open to sep on 6/64" chk. Well press decr'd to 200 psi/25 min. Close chk @ sep & open on manifold to about 28/64". 0 psi/2 min after opening chk. Open well to pit through 2" vlv – slight gas blw. Dropped 4 soap sticks & watched well. No flw. SI f/PBU.
DC: $ 2,678 CC: $276,552

01/05/03 SI f/PBU. SICP 450 psi.
DC: $ 1,918 CC: $278,470

01/06/03 SI f/PBU. SICP 700 psi.
DC: $ 570 CC: $279,039

01/07/03 SI f/PBU. SICP 750 psi.
DC: $ 570 CC: $279,609

01/08/03 SICP 850 psi. Open to tst tnks on 14/64" chk. Press decr'd to 200 psi in <1 min. Open chk to 28/64", press decr'd to 0 psi/2 min. Open well to pit on open 2" vlv. Slight blw seen on line. Wtr trickling out of 2" line & stream cont'd to grow. Turn to tst tnk on full open chk.

01/08/03 **(cont.)**

Time	Choke	PSI	Bbls	
09:30	Open	0	13	
10:30	Open	4	13	All wtr
11:30	32/64"	10	23	All wtr
12:30	32/64"	40	26	All wtr
13:30	32/64"	160	47	Wtr, slight gas, pH 7, Chl 8600
14:30	32/64"	240	53	30 sec wtr, 5 sec gas & wtr
15:30	32/64"	125	33	25 sec wtr, 10 sec gas & wtr
16:30	32/64"	25	10	All gas; hauled out 140 BW
17:30	32/64"	100	8	25 sec wtr, 5 sec gas, press dropping
18:00	32/64"	25		Mostly gas, slight wtr
18:30	32/64"	0	5	Slight gas blw
19:30	32/64"	0	0	No gas blw. SIW.

SI f/PBU. Press built to 25 psi/1 hr. Blw manifold out & SI.
DC: $30,395 CC: $310,004

01/09/03 SICP 950 psi. Open well to tst tnk on 14/64" chk. Press decr'g slowly. Cont to open chk to 32/64", press dropped to 0 psi/30 min – no flw. Open to pit on 2" line/1 hr. Small amt of gas vapor coming out of line. SIW. Press incr'd to 10 psi/1 hr.
DC: $ 1,790 CC: $311,793

01/10/03 SICP 450 psi. WSI.
DC: $ 600 CC: $312,393

01/11/03 SICP 450 psi. WSI.
DC: $ 600 CC: $312,992

01/12/03 SICP 750 psi. WSI
DC: $ 600 CC: $313,592

01/13/03 SICP 850 psi. WSI.
DC: $ 600 CC: $314,192

01/14/03 SICP 950 psi. WSI.
DC: $ 600 CC: $314,792

01/15/03 SICP 1000 psi. WSI.
DC: $ 600 CC: $315,392

01/16/03 SICP 1050 psi. WSI.
DC: $ 600 CC: $315,990

01/17/03 SICP 1100 psi. WSI. Prep to RIH w/gauge ring & set plug.
DC: $ 600 CC: $316,590

01/18/03 SICP 1175 psi. RU WL. Thaw out equalizer hose. Equalize well & lubricator. TIH w/JB & GR. Tag @ 11,714'. TOH. LD JB & GR. PU CIBP & TIH. Set @ 11,654'. TOH. RD. SION.
DC: $10,016 CC: $326,606

01/19/03 SICP 1150 psi. Open to tst tnk on 14/64" chk. Press dropping fast. Open chk to 48/64" as pressure dropped & then wide open. Open to pit on full 2" line. 0 psi/2 min. Fluid coming out of 2" line after 5 min. Turn to tnk on full open chk.

Time	Choke	PSI	Bbls	
09:00	Open	2	19	All wtr
10:00	48/64"	4	21	Wtr, little gas
11:00	32/64"	8	18	Wtr, little gas
12:00	32/64"	12	13	Wtr, little gas
13:00	32/64"	38	25	Wtr, little gas
14:00	32/64"	70	35	Wtr slugs/15 sec, gas/5 sec

01/19/03 (Cont.)

Time	Choke	PSI	Bbls	
15:00	32/64"	25	30	Wtr/10 sec, gas/3 sec. Chl 8280, pH 7.0
16:00	32/64"	60	33	Wtr/3 sec, gas w/little wtr/20 sec
16:30	32/64"	80	0	All gas, no fluid. Press dropping
17:00	32/64"	8	20	All gas, no fluid
17:30	32/64"	40		Gas & sml wtr slugs
18:00	32/64"	35	9	Mostly gas, sml wtr slugs. Chl 8560, ph 7.0
18:30	32/64"	0		Slight gas blw
19:00	32/64"	20	0	Gas w/sml wtr slugs
19:30	32/64"	40		Gas w/sml wtr slugs
20:00	32/64"	10	10	All gas, no fluid
20:30	32/64"	0		Slight gas blw
21:00	32/64"	0	0	No gas blw

SI. Bld to 20 psi. Blw dwn manifold. SION.
DC: $ 1,958 CC: $328,563

01/20/03 SICP 1000 psi. Open to tst tnk on 14/64" chk & cont'd to open chk to 32/64" as press dropped. Open to pit on full open chk when press reached 250 psi. Total blw dwn time/20 min. Close chk & open to pit on full 2" line, no gas blw. No flw. SI & installed 100 psi gauge. Press built to 20 psi/1 hr of being SI. Blw dwn manifold w/20 psi of gas press. SIW.
DC: $ 1,880 CC: $330,443

01/21/03 SICP 450 psi. SI f/PBU.
DC: $ 599 CC: $331,041

01/22/03 SICP 650 psi. SI f/PBU.
DC: $ 599 CC: $331,640

01/23/03 SICP 750 psi. SI f/PBU.
DC: $ 599 CC: $332,239

01/24/03 SICP 800 psi. SI f/PBU. SD sep on loc. Blw dwn the gas sales line. Dig out 2" road crossing @ the 'N' point. Replace w/& install 4".
DC: $ 3,680 CC: $335,918

01/25/03 SICP 860 psi. SI f/PBU. Fin road crossing. Replace controllers on dmp vlvs & replace hammer union on flw loop. WO 3" meter run.
DC: $ 1,879 CC: $337,797

01/26/03 SICP 850 psi. SI f/PBU.
DC: $ 598 CC: $338,395

01/27/03 SICP 950 psi. SI f/PBU.
DC: $ 598 CC: $338,993

01/28/03 SICP 1000 psi. SI f/PBU.
DC: $15,697 CC: $354,690

01/29/03 SICP 1100 psi. Flw tst well as follows:

Time	Choke	PSI	BPH	
09:15	12/64"	1100		Open to frac tnk
09:30	12/64"	300		Gas
09:45	12/64"	175		Fluid - wr
10:00	12/64"	175		Wtr
10:15	12/64"	160	16	
11:15	12/64"	200	20	Open to 14/64" chk
12:15	14/64"	210	11	100% wtr

01/29/03 (cont.)

Time	Choke	PSI	BPH	
13:15	14/64"	210	9	100% wtr w/gas
14:15	20/64"	24	9	100% wtr w/gas
15:15	20/64"	20	3	Gas & wtr

TBWR 67. SI f/PBU.
DC: $ 1,858 CC: $356,548

01/30/03 SICP 1100 psi. Flw tst well:

Time	Choke	PSI	BPH	
09:00	16/64"	900		
10:00	16/64"	375	6	
11:00	32/64"	5	19	
12:00	32/64"	0	13	
13:00	32/64"	0	12	
14:00	32/64"	0	10	
15:00	32/64"	0	9	
16:00	32/64"	20	29	gas/wtr
17:00	3264"	30	21	gas/wtr

Tst coils on sep. SI f/PBU.
DC: $ 1,858 CC: $358,406

01/31/03 SICP 1200 psi. SI f/PBU. Install 3" meter run @ Phillips PL tie-in. Flw tst as follows:

Time	Choke	PSI	BPH	
10:00	16/64"	1200		Blew to 0 psi/40 min.
11:00	open			No flw
12:00	open			No flw. SI f/PBU.
13:00	32/64	0	7	Wtr
14:00	32/64	0	7	Wtr
15:00	32/64"	0	8.5	Wtr/gas
16:00	32/64"	6	10	Wtr/gas
17:00	32/64"	10	8.5	Wtr/gas
18:00	32/64"	10	11	Wtr/gas. SI f/PBU.

DC: $ 1,858 CC: $360,264

02/01/03 SICP 900 psi. Flw tst to frac tnk. Opened on 12/64" chk. Straight gas/2 hrs, press dropped to 58 psi when fluid started. Made 14 BF w/very little gas. SI w/200 psi. WOO.
DC: $ 1,858 CC: $362,122

02/02/03 SICP 600 psi.
DC: $ 1,858 CC: $363,980

02/03/03 SICP 750 psi.
DC: $ 599 CC: $364,579

02/04/03 SICP 800 psi. Open to tst tnk on 14/64" chk – all gas. Pressure dropping rapidly. As press dropped, opened chk to 28/64". When press reached 100 psi, open well to pit on full open 2" line. Press 0 psi after 2 min of opening well to tst tnk. After being open to pit/5 min, wtr started flwg out of 2" line. Closed to pit & put back into tst tnk on 32/64" chk. Press incr'd to 20 psi briefly & dropped to 2 psi. Flw to tst tnk ARO 153 BW. Avg wtr rate 11 BPH. No gas to very little gas is brk'g out of the wtr.
DC: $ 1,879 CC: $366,458

02/05/03 Flw to tst tnk on 32/64" chk – gas blw to tnk @ 0 psi. Chkd back to 10/64". Press incr'd to 70 psi/4 hrs & still flwg small amt of gas. Press dropped to 0 psi/3 hrs. Well died. SIW.
DC: $ 1,879 CC: $368,336

02/06/03 SICP 640 psi. WSI.
DC: $ 599 CC: $368,935

02/07/03 SICP 800 psi. WSI.
DC: $ 598 CC: $369,533

02/08/03 SICP 900 psi. WSI.
DC: $ 599 CC: $370,132

02/09/03 SICP 950 psi. WSI.
DC: $ 598 CC: $370,730

02/10/03 SICP 1050 psi. WSI.
DC: $ 599 CC: $371,329

02/11/03 SICP 1100 psi. WSI. Prep to flw well.
DC: $ 624 CC: $371,953

02/12/03 SICP 1150 psi. Thaw out flw back manifold. Open chk to 14/64" to flw. Flwd all gas until press dropped to 50 psi. SI f/PBU. Built press to 500 psi. Open back up on 14/64" chk. Well started to flw wtr almost instantly. Open to 32/64" & flwd 48 BW/4 hrs. SIW. Drain flw lines to tst tnk.
DC: $ 35,497 CC: $407,450

02/13/03 SICP 650 psi. Open well to tst tnk on 32/64" chk. Prod 44 BW, no press reading on gauge. PU coils for separator & install. Hook up flw line & heat trace lines. WO parts. SIW.
DC: $ 1,906 CC: $409,356

02/14/03 Open well to tst tnk, bleed off press to 0. RU WL. PU CIBP & TIH. Set @ 11,620'. TOH w/setting tool. PU Dmp bailer. Fill w/1 sx cmt. TIH w/bailer & dmp cmt on top of plug (1 sx = 10' of fill, PBTD s/b 11,610'). TOH & LD bailer. Pull 4-1/16" 10K frac vlv off WH & replace w/new. PT csg & vlv to 8500 psi/30 min - held gd. RD pmp truck. TIH w/perf guns & TIH. **Perforate fr/11,522-25' & 11,476-79',** 16 holes (8 holes in ea zn). RD WL. SICP after perf'g both zns 450 psi. Hot oil trucks on loc heating wtr for frac. SIW.
DC: $ 15,357 CC: $424,713

02/15/03 SICP 1428 psi. PT lines to 8500 psi . Pmpd 6004 gals 10# meth.
Pre-Pad Pmpd 6,008 gals. Did step dwn pmp-in tst (determined that only 8.6 perfs were open). ISIP 4340 psi, FG 0.82.
Pad Pmpd 8,192 gals. First 15 gals had .5 ppg sd.
Pmpd 10,005 gals fluid w/sd ramped fr/ 1-3 ppg.
Pmpd 8,008 gals fluid w/sd ramped fr/ 3-4 ppg .
Pmpd 6,002 gals fluid w/sd rampd fr/ 4-4.4 ppg.
Pmpd 3,668 gals fluid w/sd ramped fr/ 4.4-4.5 ppg.
Flushed job w/7,107 gals fluid.
ISIP 5090 psi, FG 0.89 Total pmpd 54,994 gals (1309 bbls).
Flw back frac. TBLFTR 1480.

Time	Choke	PSI	BPH	
13:00	8/64"	3800	34	
14:00	8/64"	3600	34	
15:00	8/64"	3500	22	
16:00	8/64"	3300	39	
17:00	8/64"	3000	25	
18:00	8/64"	2900	37	lt sd
19:00	8/64"	2600	29	lt sd
20:00	8/64"	2400	29	lt sd
21:00	8/64"	2100	28	lt sd, slight gas
22:00	8/64"	1950	37	lt sd, slight gas
23:00	8/64"	1925	25	lt sd, slight gas
00:00	8/64"	1800	33	wtr w/slight gas
01:00	8/64"	1700	19	wtr & slight gas

02/15/03 (cont.)

Time	Choke	PSI	BPH	
02:00	8/64"	1700	5	wtr & slight gas
03:00	8/64"	1650	24	wtr & gas
04:00	8/64"	1600	10	wtr & gas
05:00	8/64"	1500	24	wtr & gas
06:00	8/64"	1400	19	wtr & gas

473 BLWR. BLWLTR 1007.
DC: $93,596 CC: $518,309

02/16/03 Flw back frac

Time	Choke	PSI	BPH	
07:00	10/64"	1350	10	wtr w/gas
08:00	10/64"	1150	13	wtr w/gas
09:00	10/64"	900	17	wtr w/gas
10:00	10/64"	1000	16	wtr w/gas
11:00	10/64"	900	22	wtr w/gas
12:00	10/64"	850	15	wtr w/gas
13:00	10/64"	800	14	wtr w/gas
14:00	10/64"	650	15	wtr w/gas
15:00	14/64"	500	19	wtr w/gas
16:00	14/64"	390	21	wtr w/gas
17:00	14/64"	410	5	wtr w/gas
18:00	14/64"	410	6	wtr w/gas
19:00	14/64"	510	19	wtr w/gas
20:00	14/64"	310	4	wtr w/gas
21:00	14/64"	280	21	wtr w/gas
22:00	14/64"	220	5	wtr w/gas
23:00	14/64"	230	17	wtr w/gas
00:00	14/64"	220	17	wtr w/gas
01:00	14/64"	210	5	wtr w/gas
02:00	14/64"	190	5	wtr w/gas
03:00	14/64"	190	13	wtr w/gas
04:00	14/64"	200	8	wtr w/gas
05:00	14/64"	200	9	wtr w/gas
06:00	14/64"	190	9	wtr w/gas

305 BLWR. 702 BLWLTR.
DC: $11,670 CC: $529,979

02/17/03 Flw back frac:

Time	Choke	PSI	BPH	
07:00	10/64"	190	14	wtr w/gas
08:00	10/64"	180	5	wtr w/gas
09:00	10/64"	180	9	wtr w/gas
10:00	10/64"	150	10	wtr w/gas
11:00	10/64"	120	5	wtr/10 secs; 50/50 wtr/gas 10 secs.
12:00	32/64"	50	14	wtr w/gas
13:00	32/64"	20	19	wtr w/gas
14:00	32/64"	10	15	wtr
15:00	32/64"	25	19	wtr
16:00	32/64"	110	39	wtr
17:00	32/64"	85	14	wtr
18:00	32/64"	80	34	wtr
19:00	32/64"	30	9	wtr w/slight gas
20:00	32/64"	10	10	wtr
21:00	0/64"	0	0	well not flwg

Dropped 2 soap sticks. SI f/PBU. Blt press to 610 in 6 hrs. Open to tst tnk. Flwd gas f/20 min & press dropped to 0 psi. Open to tst tnk/3 hrs more – 0 psi & no fluid. SI f/PBU. 216 BLWR. 468 BLWLTR.
DC: $ 2,982 CC: $532,961

02/18/03 Built press to 500 psi. Dropped 2 soap sticks & open to tst tnk on 14/64" chk. Press dropped to 0 psi/20 min. Open to pit on full 2". No flw, gas fumes only. Shut vlvs & opened needle vlv. Gas blw coming out of needle vlv. Watched well/30 min - no change in blw. SIW. Check press in the AM & attempt to flw.
DC: $ 2,972 CC: $535,933

02/19/03 SICP 500 psi. Open to tst tnk on 32/64" chk. Flwd all gas/20 min until press dropped to 0 psi. Open to pit on full 2" line, gas vapors only. SI & rls flw back crew. RU WL. TIH & tag TD @ 11,532', btm perf @ 11,525'. TOH. Looked like gas cut fluid fr/ 600-6,800' & no fluid up to surf. Opened well to tst tnk to blw off gas press in 32/64" chk. Gas flwd/5 min & wtr flwd thereafter @ 200 psi. Flwd 30 BW before press dropped to 0 psi & gas blw. RD WL. SIW.
DC: $ 4,051 CC: $539,984

02/20/03 SICP 1000 psi. Open to tst tnk on 32/64" chk, 0 psi/30 min & slight gas blw. RU WL. TIH w/BHP bomb. SI. Open to tst tnk on 32/64" chk, flwd gas/5 min & then started flwg gas cut fluid. Reduce chk to 18/64".

Time	Choke	PSI	BPH	
13:00	32/64"	600		Open to tst tnk
14:00	18/64"	170	26	
15:00	18/64"	215	5	
18:00	16/64"	110		
19:00	16/64"	150	13	
20:00	16/64"	200	8	
21:00	16/64"	180	9	
22:00	16/64"	100	8	
23:00	16/64"	40	5	
00:00	16/64"	85	4	
01:00	16/64"	140	4	
02:00	16/64"	115	5	
03:00	16/64"	100	8	
04:00	16/64"	110	5	
05:00	16/64"	30	0	

105 BLWR, 358 BLWLTR.
DC: $ 4,073 CC: $544,057

02/21/03 Flw back:

Time	Choke	PSI	BPH
06:00	16/64"	30	
07:00	16/64"	25	2
08:00	16/64"	100	2
09:00	16/64"	70	2
10:00	16/64"	30	2
11:00	16/64"	30	0
12:00	16/64"	30	1
13:00	16/64"	12	0
14:00	16/64"	10	0
18:00	16/64"	2	0

SI f/PBU. Est gas ARO 100 MCFD. 9 BLWR, 347 BLWLTR.
DC: $ 3,943 CC: $548,000

02/22/03 SICP 460 psi. Open well to tst tnk on 32/64" chk. Press dropped to 0 psi/10 min. Open to pit on 2" line, no flw. SI f/PBU. Open to pit on 2" line, press dropped to 0 psi immediately. Drop 3 soap sticks 10 mins apart. Well started to flw sml stream of wtr to pit. Shut to pit, open to tst tnk:

Time	Choke	PSI	BPH	
12:00	open	0		
13:00	18/64"	20	13	wtr
14:00	20/64"	40	13	wtr
15:00	32/64"	90	19	wtr

02/22/03 (cont...)

Time	Choke	PSI	BPH	
16:00	20/64"	110	9	wtr w/slight gas
17:00	20/64"	89	13	wtr
22:00	20/64"	0	67	
00:00		0		SI f/PBU.

134 BLWR. 213 BLWLTR.
DC: $ 6,665 CC: $554,665

02/23/03 SICP 700 psi. Open well to tst tnk on 20/64" chk. Flw off gas & well press to 0 psi/20 min. Open to tst tnk w/no flw/3 hrs. Drop 2 soap sticks & SI f/PBU.
DC: $ 2,885 CC: $557,550

02/24/03 SICP 890 psi. Open to tst tnk, flwd all gas/20 min until press dropped to 0 psi. Dropped 2 soap sticks ½ hr apart. No flw. SI f/PBU. Open to tst tnk when press reached 40 psi & dropped 2 more soap sticks ½ hr apart, no flw. SI. TP @ 90 psi & opened to pit on full 2" line, gas fumes coming out of line. Well started to flw wtr. SI to pit & turn to tst tnk on 24/64" chk. 108 BLWR before press dropped to 0 psi & gas vapor coming out of flw line. SI f/PBU. 105 BLWLTR.
DC: $ 2,005 CC: $559,555

02/25/03 WSI. Open to pit. Press dropped to 0 psi in a few min, gas blw only. Dropped 2 soap sticks. SI f/PBU.
DC: $ 2,005 CC: $561,560

02/26/03 WSI. SICP 780 PSI. Blw press to 0 psi/15 min on 32/64" chk. SI. Filling frac tnks w/wtr.
DC: $ 2,105 CC: $563,665

02/27/03 WSI. SICP 800 psi. RU WL. Bleed press to 0 psi. PU CIBP & TIH. Set plug @ 11,460'. TOH w/setting tool. PU dmp bailer & TIH w/1 sk cmt. Dmp cmt on top of plug. PBTD s/b 11,450'. TOH w/bailer. PU perf guns & TIH. **Perforate Mesaverde fr/ 11,370'-74' (8 holes); 11,296'-300' (8 holes) & 11,230'-34' (8 holes)**, 2 JSPF, 24 total holes. All guns were 2.5" expend, 120° ph, 11 gr mill charges. SI.

02/28/03 RU frac equip. Frac MV3:

Stage 1	Pmp 9474 gals 10# meth wtr. Perform step dwn tst. Determined That 16 of 24 perfs were open. ISIP 4385 psi. FG = .82.
Stage 2	Pmp 2010 gals of pre-pad
Stage 3	Pmp 20573 gals of pad
Stage 4	Pmp 1-3# sd stage using 28012 gals fluid & 56024# 20/40 sd
Stage 5	Pmp 3-4# sd stage using 20004 gals fluid & 70014# 20/40 sd
Stage 6	Pmp 4-5# sd stage using 20011 gals fluid & 90049.5# 20/40 sd
Stage 7	Pmp 5# sd stage using 9723 gals fluid & 48615# 20/40 PR-6000 sd
Stage 8	Flushed w/7026 gals 10# meth wtr.

(Total pmpd 116,833 gals fluid, 216087.5# 20/40 Ottowa sd & 48615# PR-6000 sd). ISIP 4850 psi. FG .87. 5 min-4577 psi-10 min 4488 psi-15 min 4418 psi. AIR 25.2 BPM, MIR 25.7 BPM, AIP 4800 psi, MIP 5884 psi. RD frac. RU WL. PU 8K frac plug & RIH. Set @ 10,940'. **Perf MV fr/ 10,913-18' (9 holes) & 10,805-10' (9 holes)** 2 JSPF, using 2.5" OD expend gun, 11 gr mill, 120° ph. RD WL. RU frac. Frac MV4:

Stage 1	Pmp 3011 gals 10# meth wtr. Perform step dwn tst. Determined That 16 of 18 holes were open. ISIP 4420 psi. FG = .85.
Stage 2	Pmp 2012 gals of pre-pad
Stage 3	Pmp 7002 gals of pad
Stage 4	Pmp 1-3# sd stage using 15502 gals fluid & 31004# 20/40 sd
Stage 5	Pmp 3-4# sd stage using 10009 gals fluid & 35031.5# 20/40 sd
Stage 6	Pmp 4-5# sd stage using 12009 gals fluid & 54040.5# 20/40 sd
Stage 7	Pmp 5# sd stage using 4039 gals fluid & 20195# 20/40 sd
Stage 8	Flush w/6713 gals 3% KCl wtr.

Cont... **(Total pmpd 60297 gals fluid & 140271# 20/40 Ottowa sd).** ISIP 4450 psi. FG = .85. 5 min 4267 psi-10 min 4170 psi-15 min 4080 psi. AIR 22.5 BPM, MIR 22.7 BPM, AIP 5500 psi, MIP 6120 psi. RD Flw back fracs

Time	Choke	PSI	BPH	
17:00	10/64"	4000		Open to tst tnk
18:00	10/64"	3800	38	
19:00	10/64"	3700	53	
20:00	10/64"	3700	43	
20:15	10/64"	3700	16	turn to pit lt sd
21:00	10/64"	3700	47	med sd
22:00	10/64"	3700	53	hvy sd
23:00	10/64"	3675	53	hvy sd
00:00	10/64"	3650	54	lt sd
01:00	10/64"	3600	54	vy little sd
02:00	10/64"	3550	53	no sd, turn to tst tnk
03:00	10/64"	3000	57	
04:00	10/64"	3450	51	
05:00	10/64"	3400	52	

TBLWTR 4366. 624 BLWR. 3742 BLWLTR.
DC: $184,548 CC: $759,505

03/01/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	10/64"	3325	47	
07:00	10/64"	3300	43	
08:00	10/64"	3250	43	
09:00	10/64"	3200	52	
10:00	10/64"	3100	38	gas brkg out of fluid
11:00	10/64"	3100	39	
12:00	10/64"	3000	43	
13:00	10/64"	3000	43	
14:00	10/64"	2900	49	
15:00	10/64"	2900	24	
16:00	10/64"	2800	38	
17:00	10/64"	2800	39	
18:00	10/64"	2700	38	little more gas in fluid
19:00	10/64"	2650	50	
20:00	10/64"	2600	39	
21:00	10/64"	2525	31	
22:00	10/64"	2500	29	
23:00	10/64"	2500	34	
00:00	10/64"	2450	33	
01:00	10/64"	2500	34	
02:00	10/64"	2500	25	gas incr'g in the fluid
03:00	10/64"	2550	25	
04:00	10/64"	2600	25	
05:00	10/64"	2625	22	

883 BLWR. 2859 BLWLTGR.
DC: $ 3,906 CC: $763,411

03/02/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	10/64"	2625	17	
07:00	10/64"	2625	17	
08:00	10/64"	2650	25	
09:00	10/64"	2650	17	Chl 18,200, pH 6.5
10:00	12/64"	2700	18	
11:00	12/64"	2700	36	
12:00	12/64"	2750	18	
13:00	12/64"	2800	27	

Cont.

Time	Choke	PSI	BPH	
14:00	12/64"	2800	26	
15:00	12/64"	2800	37	
16:00	12/64"	2800	24	
17:00	12/64"	2800	25	
18:00	12/64"	2800	17	Chl 18,600, pH 6.5
19:00	12/64"	2750	21	
20:00	12/64"	2750	21	
21:00	12/64"	2725	17	
22:00	12/64"	2700	17	
23:00	12/64"	2650	13	
00:00	12/64"	2600	17	
01:00	12/64"	2550	17	
02:00	12/64"	2550	16	gas incr'g in the fluid
03:00	12/64"	2500	13	
04:00	12/64"	2450	12	
05:00	12/64"	2400	14	

Est gas ARO 500-750 MCFD @ this time. 482 BLWR. 2377 BLWLTR.
DC: $ 3,906 CC: $767,317

03/03/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	12/64"	2350	9	
07:00	12/64"	2275	8	
08:00	12/64"	2300	14	
09:00	12/64"	2310	13	Chl 19,400, pH 6.5
10:00	12/64"	2250	13	
11:00	12/64"	2150	5	change chk to 14/64"
12:00	14/64"	2100	8	
13:00	14/64"	2000	17	
14:00	14/64"	1900	11	
15:00	14/64"	1900	15	
16:00	14/64"	1825	13	
17:00	14/64"	1750	11	Chl 19,400, pH 6.5
18:00	14/64"	1750	11	
19:00	14/64"	1675	9	
20:00	14/64"	1650	9	
21:00	14/64"	1610	11	
22:00	14/64"	1550	7	
23:00	14/64"	1510	10	
00:00	14/64"	1450	7	
01:00	14/64"	1400	7	
02:00	14/64"	1350	7	
03:00	14/64"	1300	8	
04:00	14/64"	1300	7	
05:00	14/64"	1250	7	

Est gas ARO 500-750 MCFD @ this time. 237 BLWR. 2140 BLWLTR.
DC: $ 3,906 CC: $771,223

03/04/03 Flw back frac on 14/64" chk. Turn to sales on 12/64" chk, 12 MCF (spot rate 358 MCFD) & 10 BW/3 hrs, CP 1350 psi, LP 106 psi. 25 BLWR. 2115 BLWLTR.
DC: $ 2,746 CC: $773,969

03/05/03 Flw to sales. 58 BLWR. 2057 BLWLTR.
DC: $ 35,183 CC: $809,152

03/06/03 Flw to sales on 12/64" chk, 227 MCF, 29 BW, FCP 2250 psi. MI RU WL. SIW. RIH w/GR & JB to 10,750'. POH. PU 8K frac plug & perf guns & TIH. Set plug @ 10,735'. **Perf MV fr/ 10,707'-10', 10,689'-92' & 10,652'-55'**, 3 spf w/2½" OD exp 0.32" EHD, 120° ph mill charges. All shots fires. RDWL. Heat frac wtr & prep for Stage 5 frac.
DC: $ 2,275 CC: $811,427

03/07/03 Frac stg 5:

Stage 1	Pmp 10172 gals 10# meth wtr. BD @ 7400 psi @ 26 BPM. ISIP 4130 psi. Found 22 of 29 holes open.
Pre-Pad	Pmp 4438 gals 20# Delta 200 @ 27 BPM AIR, AIP 5372 psi.
Pad	Pmp 16012 gals 25# Delta 200 @ 27.7 BPM AIR, AIP 5695 psi.
	Pmp 1-3# sd stg w/38000 gals 25# Delta 200 @ 27.7 BPM AIR, & 58750# Ottowa 20/40 sd @ 5098 psi AIP.
	Pmp 3-4# sd stg w/32004 gals 25# Delta 200 @ 32.1 BPM AIR & 164649# Ottowa 20/40 sd @ 4830 psi AIP.
	Pmp 4-5# sd stg w/36015 gals 25# Delta 200 @ 32.7 BPM AIR & 322212# Ottowa 20/40 sd @ 4531 psi AIP.
	Pmpd 5# sd stg w/9596 gals 25# Delta 200 @ 35 BPM AIR & 369371# Ottowa 20/40 sd @ 4653 psi AIP.
	Flush w/6646 gals 10# meth wtr.

ISIP 4450 psi, 5 min 4238 psi-10 min 4102 psi-15 min 3962 psi. **Pmpd total of 152883 gals wtr & 400000# Ottowa 20/40 sd.** RU WL. PU HES 8K frac plug & 4 3', 2.5" OD 2 spf, 0.32" EHD, 120° ph mill guns & RIH. Set plug @ 10,030'. **Perf MV fr/ 10,002-05', 9977-80', 9947-50' & 9805-08', 24 tot holes.** RDWL. Frac Stg 6:

Stage 1	Pmp 7981 gals 10# meth wtr. BD @ 5028 psi, 21.7 BPM AIR, 5904 psi AIP. ISIP 3760 psi. Found 15 of 24 perfs open.
Pre-Pad	Pmp 4095 gals 20# Delta 200 @ 25.6 BPM AIR, 5995 psi AIP.
Pad	Pmp 12004 gals 25# Delta 200 @ 32.6 BPM AIR, 6295 psi AIP.
	Pmp 1-3# sd stg w/24014 gals 25# Delta 200 & 32491# Ottowa 20/40 sd @ 34.7 BPM AIR, 5523 psi AIP.
	Pmp 3-4# sd stg w/18005 gals 25# Delta 200 & 91561# Ottowa 20/40 sd @ 34.8 BPM AIR, 4819 psi AIP.
	Pmp 4-4.5# sd stg w/12015 gals 25# Delta 200 & 140964# Ottowa 20/40 sd @ 34.9 BPM AIR, 4524 psi AIP.
	Pmp 4.5-5# sd stg w/10323 gals 25# Delta 200 & 188868# Ottowa 20/40 sd @ 34.9 BPM AIR, 4335 psi AIP.
	Flush w/6100 gals 10# meth wtr.

ISIP 4050 psi, 5 min 3910 psi-10 min 3850 psi-15 min 3795 psi. **Pmpd total of 94537 gals fluid & 203600# 20/40 Ottowa sd.** Flw back frac. 2028 BLWTR fr/ stg 3-4, 5879 BLWTR fr/ stg 5-6. 7907 TBLWLTR.

Time	Choke	PSI	BPH	
15:30	10/64"	3610	0	Start flw back
15:45	10/64"	3410		
16:00	10/64"	3260	27	
17:00	10/64"	3210	48	
18:00	10/64"	3100	52	
18:15	10/64"	3100	15	turn to pit
19:00	10/64"	3250	38	some sd
20:00	10/64"	3250	53	hvy sd
21:00	10/64"	3240	52	hvy sd
22:00	10/64"	3200	53	sd
23:00	10/64"	3200	53	sd
24:00	10/64"	3160	53	sd
01:00	10/64"	3150	53	sd
02:00	10/64"	3120	53	sd
03:00	10/64"	3110	53	sd
04:00	10/64"	3100	53	sd
05:00	10/64"	3050	53	sd

707 BLWR. 7200 BLWLTR.
DC: $234,874 CC: $1,046,302

03/08/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	10/64"	3040	43	
07:00	10/64"	3010	53	
08:00	10/64"	2980	48	sd, turn to pit
09:00	10/64"	2950	50	sd
10:00	10/64"	2950	50	sd
11:00	10/64"	2925	50	sd, turn to flw back tnk
12:00	10/64"	2900	43	
13:00	10/64"	2890	43	chng chk
14:00	12/64"	2840	63	
15:00	12/64"	2790	54	
16:00	12/64"	2750	55	
17:00	12/64"	2700	54	
18:00	12/64"	2650	59	
19:00	12/64"	2600	61	
20:00	12/64"	2550	61	
21:00	12/64"	2500	53	
22:00	12/64"	2450	58	
23:00	12/64"	2400	62	
24:00	12/64"	2350	53	
01:00	12/64"	2300	55	
02:00	12/64"	2250	54	
03:00	12/64"	2200	51	
04:00	12/64"	2150	51	
05:00	12/64"	2075	53	

1277 BLWR. 5923 BLWLTR.
DC: $ 24,110 CC: $1,070,412

03/09/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	12/64"	2010	54	
07:00	12/64"	1950	49	
08:00	12/64"	1910	50	Chl 20,200, pH 6.5
09:00	12/64"	1925	46	
10:00	12/64"	1960	51	
11:00	12/64"	1980	34	Start gas
12:00	12/64"	2000	47	
13:00	12/64"	2000	29	
14:00	12/64"	2010	38	
15:00	12/64"	2010	40	
16:00	12/64"	1990	26	
17:00	12/64"	1975	31	
18:00	12/64"	2000	34	Chl 20,600, pH 6.5
19:00	12/64"	2050	22	
20:00	12/64"	2100	34	Est gas ARO 150 MCFD
21:00	12/64"	2150	33	
22:00	12/64"	2200	24	
23:00	12/64"	2150	24	
24:00	12/64"	2125	29	
01:00	12/64"	2150	24	Est gas ARO 200 MCFD
02:00	12/64"	2200	24	
03:00	12/64"	2250	24	
04:00	12/64"	2300	29	
05:00	12/64"	2325	24	

820 BLWR. 5103 BLWLTR. Est gas ARO 250 MCFD.
DC: $ 3,835 CC: $1,074,247

03/10/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	12/64"	2360	19	
07:00	12/64"	2400	25	
08:00	12/64"	2415	13	
09:00	12/64"	2400	17	Chl 21,800, pH 6.5
10:00	12/64"	2425	21	
11:00	12/64"	2425	21	
12:00	12/64"	2410	21	Est gas ARO 300 MCFD
13:00	12/64"	2400	21	
14:00	12/64"	2400	17	
15:00	12/64"	2390	21	Chng chk
16:00	14/64"	2350	17	
17:00	14/64"	2290	25	
18:00	14/64"	2200	18	Chl 22,200, ph 7.0
19:00	14/64"	2210	27	Est gas ARO 400 MCFD
20:00	14/64"	2240	27	
21:00	14/64"	2220	31	
22:00	14/64"	2210	21	
23:00	14/64"	2200	17	
24:00	14/64"	2175	16	
01:00	14/64"	2150	17	
02:00	14/64"	2100	26	
03:00	14/64"	2025	17	
04:00	14/64"	1975	22	
05:00	14/64"	1925	17	

494 BLWR. 4609 BLWLTR.
DC: $ 2,977 CC: $1,077,223

03/11/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	14/64"		13	
07:00	14/64"		21	Chl 22,400, pH 6.5
08:00	14/64"		23	
09:00	14/64"		14	
10:00	14/64"		15	
11:00	14/64"		19	
12:00	14/64"		9	
13:00	14/64"		13	
14:00	14/64"		17	
15:00	14/64"		14	
16:00	14/64"		15	
17:00	14/64"		17	
18:00	14/64"		13	
19:00	14/64"		16	Chl 23,400, pH 6.5
20:00	14/64"		13	Est gas ARO 400 MCFD
21:00	14/64"		17	
22:00	14/64"		12	
23:00	14/64"		13	
24:00	14/64"		12	
01:00	14/64"		14	
02:00	14/64"		13	
03:00	14/64"		14	
04:00	14/64"		13	
05:00	14/64"		9	

349 BLWR. 4259 BLWLTR.
DC: $ 3,523 CC: $1,080,746

03/12/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	14/64"		13	
07:00	14/64"		22	Chl 24,000, pH 6.5
08:00	14/64"		30	
09:00	14/64"		39	Turn to sales on 12/64" chk.

39 BLWR. 4220 BLWLTR. Flw to sales on 12/64" chk @ 1600 psi ARO ±3 BPH.
DC: $ 5,151 CC: $1,085,897

03/13/03 Flw to sales on 12/64" chk, 239 MCFD/23 hrs. FCP 1750 psi. Chk plugged. Spot gas ARO 750 MCFD. 51 BLWR. 4171 BLWLTR.
DC: $ 1,795 CC: $1,087,692

03/14/03 Flw to sales on 12/64" chk, 569 MCFD/24 hrs, FCP 1450 psi. Spot gas ARO 648 MCFD. 254 BLWR. 3916 BLWLTR.
DC: $ 2,186 CC: $1,089,878

03/15/03 Flw to sales on 12/64" chk, 570 MCFD, FCP 1340 psi. 263 BLWR. 3653 BLWLTR.
DC: $ 4,491 CC: $1,094,369

03/16/03 Flw to sales on 12/64" chk, 536 MCFD, FCP 1450 psi. 92 BLWR. 3561 BLWLTR.
DC: $ 756 CC: $1,095,125

03/17/03 Flw to sales on 12/64" chk, 584 MCFD, FCP 1300 psi. 165 BLWR. 3396 BLWLTR.
DC: $ 181 CC: $1,095,306

03/18/03 Flw to sales on 12/64" chk, 586 MCFD, FCP 1200 psi. 134 BLWR. 3262 BLWLTR.
DC: $ 23,039 CC: $1,118,345

03/19/03 Flw to sales on 12/64" chk, 577 MCFD, FCP 1200 psi. 126 BLWR. 3136 BLWLTR.
DC: $ 365 CC: $1,118,710

03/20/03 Flw to sales on 12/64" chk, 550 MCFD, FCP 1175 psi. 81 BLWR. 3055 BLWLTR. MI rig.
DC: $ 1,726 CC: $1,120,436

03/21/03 Flw to sales on 12/64" chk, 569 MCFD, FCP 1150 psi. 101 BLWR. 2954 BLWLTR. RU WL. SIW. TIH w/3¾" OD GR to 9,800'. TOH. PU setting tool & 5K composite BP & TIH. Correlate to DNS log & set @ 9,780'. TOH w/setting tool. Install tbg hanger. ND 4-1/16 10K frac vlv. NU 7-1/16 5K BOP & tst to 5000 psi – gd. Pull check vlv & tbg hanger. Fill hole w/80 BW. MI & spot tbg.
DC: $ 14,734 CC: $1,135,170

03/22/03 Start rig. Tally & PU 2⅜" tbg & TIH. RU hydrl & rotating hd. PU pwr swivel & make ready to DO plugs. RU flw lines & manifold to pit & tnk. WSI.
DC: $ 5,669 CC: $1,140,839

03/23/03 PU jts tbg. Tag plug @ 9,780'. Start pmp & fill tbg. DO 4 plugs. TOH & LD 8 jts tbg. (Note: Pmpd & recvrd 260 BF to pit during clean-out.) TOH to string float, remove string float. TIH & land tbg @ 11,217.9'. RD. ND rotating hd & hydrl. ND BOP. Drop ball to pmp off bit. NU tree & tst to 10000 psi – gd tst. RU rig pmp. Pmp 40 bbls, press incr'd fr/ 0 psi-600 psi & then dropped to 0. Pmpd 3 more bbls to ensure bit was pmpd off. Open tbg to rig tnk, no flw. RD & drain pmp lines. Tbg has a slight blw @ this time. Make up flw line to separator & chk tbg FOE flw, slight blw on tbg. SIW f/PBU.
DC: $ 43,031 CC: $1,183,870

03/24/03 SI f/PBU. SITP 1800 psi. SICP 2500 psi. Bld flw line fr/ well to tst tnk & open to tnk:

Time	Choke	CP	TP	BPH	
09:40	14/64"	2500	1800	0	
10:00	20/64"	2490	1300	0	
11:00	20/64"	2500	200	2	
12:00	20/64"	2650	230	4	
13:00	20/64"	2700	375	24	Chng to 32/64 get fluid moving
14:00	18/64"	2650	1190	29	
15:00	18/64"	2625	1260	21	
16:00	18/64"	2615	1200	21	
17:00	12/64"	2750	1300	11	Turn to prodn equip; too much wtr for the amt of gas.
18:00	18/64"	2500	1475	24	
19:00	18/64"	2400	1350	18	
20:00	18/64"	2300	1275	17	
21:00	18/64"	2200	1200	12	
22:00	18/64"	2150	1160	18	
23:00	18/64"	2100	1140	13	
00:00	18/64"	2070	1100	13	
01:00	18/64"	2020	1080	9	
02:00	18/64"	2000	1040	13	
03:00	18/64"	1975	1000	13	
04:00	18/64"	1950	1000	13	
05:00	18/64"	1900	990	13	

285 BLWR. 2669 BLWLTR.
DC: $ 2,169 CC: $1,186,039

03/25/03 Flw back to tst tnk. Turn to sales line & prod'n equip/9 hrs. Turn back to tst tnk due to comprsr dwn & HLP. Comprsr BOL, return to sales line. RD & rls pulling unit. Load out BOP, accumulator, hydrl & pwr swivel. Flwg to sales on 14/64" chk, 30 MCF/2 hrs, FTP 1100 psi. Spot gas sales reading 585 MCFD. 131 BLWR. 2538 BLWLTR.
DC: $ 6,529 CC: $1,192,568

03/26/03 Flw to sales on 14/64" chk, 479 MCF/20 hrs, FTP 1000 psi. Comprsr dwn for repairs. 39 BLWR. 2499 BLWLTR. CC: $1,192,568

03/27/03 Flw to sales on 14/64" chk, 553 MCFD, FTP 1000 psi. 173 BLWR. 2326 BLWLTR.

03/28/03 Flw to sales on 14/64" chk, 512 MCFD, FTP 1000 psi. 170 BLWR. 2156 BLWLTR.

03/29/03 Flw to sales on 14/64" chk, 593 MCFD, FTP 1000 psi. 183 BLWR. 1973 BLWLTR.

03/30/03 Flw to sales on 14/64" chk, 609 MCFD, FTP 950 psi. 130 BLWR. 1843 BLWLTR.

03/31/03 Flw to sales on 14/64" chk, 512 MCFD, FTP 950 psi. 138 BLWR. 1705 BLWLTR.

04/01/03 Flw to sales on 14/64" chk, 601 MCFD, FTP 950 psi. 134 BLWR. 1571 BLWLTR. **Final rpt.**

05/01/03 MI DB cat to loc. Begin to back fill drlg pit w/rock & dirt fr/ pit stock pile.
DC: $ 2,903 CC: $1,201,372

GASCO Energy Inc

Daily Completion Report
Federal #23-21-9-19
NESW, Sec. 21, T9S, R19E
Uintah County, Utah

43-047-34199

Federal 23-21-9-19
Daily Drilling Report

Distribution list: M. Decker, M. Erickson, R. Dean, H. Sharpe, J. Longwell, Phillips Petroleum, and Halliburton

8/21/02	Notify Ed Forsman, Vernal BLM of intent to begin location construction.
8/22/02	MI Huffman construction. Start building road from 31-29 to new location. Start to level off location. Hit solid rock near grade on location.
8/23/02	Work on road to location-70% complete. Location leveled except for two rock humps which will need to be blasted.
8/24/02	Move in rock drill start drilling blast holes in pit area. Drill steel broke, wait on new steel.
8/25/02	Wait on new drill steel.
8/26/02	Wait on new drill steel.
8/27/02	Finished drilling 450 blast holes, load holes with prell and dynamite. Blast pit area and two rock humps on location.
8/28/02	Push rubble out of pit area with cat. Level and extend location to accommodate CAZA rig #61. Move in Rat hole rig.
8/29/02	Blast rock mound in pit area, finish pushing rubble out of pit. Blade and compact road. Expect to spud well with rat hole rig midday 8/29/02.
8/30/02	Drill Rathole and mousehole. Finish dressing off location. Install pit liner.
8/31/02	Spud well 8/30/02 with Bill Junior's rathole rig. Drill 17 ½" hole to 233'. Run 13 3/8" 48# H-40 casing to 225'. Cement with 220 sacks Class G at 15.6 PPG, 2% CaCl , and ¼# flocele. Circulated 14 bbls to surface. Start moving in CAZA #61.
9/1/02	Continue moving in CAZA rig #61.
9/2/02	SDF Sunday
9/3/02	SDF Labor Day
9/4/02	Continue moving in CAZA rig #61
9/5/02	Rig up CAZA #61.
9/6/02	Rig up CAZA #61, expect to start drilling on 9/6/02.

9/7/02 Finish rigging up CAZA rig #61.

9/8/02 Drill rathole, PU BHA, WO tools, GIH with bit #1 a 11' Security XC33N, Tag at 178', prime pumps, cut drill line, replace wash pipe packing.

9/9/02 PO drilling at 283'.Repair draworks brakes. Begin drilling cement at 04:00 AM 9-9-02. Drill cement from 178' to 225', drill new hole from 225' to 284'. Mud is water.

9/10/02 PO drilling at 1120'. Drill and survey from 284' to 1120'. Surveys: ½ deg at 500', ½ deg at 1050'. WOB 25,000#, 20 RPM, PP 1050 psi. Mud is water

9/11/02 PO Drilling at 2226'. Drill and survey from 1120' to 2226', started getting Gilsonite returns and encountered deviation at approx 2000'. Reduced WOB and started fanning bit to get hole straight again. Surveys: ½ deg at 1402', ½ deg at 1635', 2 ½ deg at 2012', 2 ¾ deg at 2031'. WOB 45,000# - 30,000#, Mud is water, RPM 20+200, PP 1440 psi.

9/12/02 PO Drilling at 3004'. Drill and survey from 2226' to 3004' with bit #1. Surveys: 2 ½ deg at 2197', 2 deg at 2471', 1 ½ deg at 2292', 2 ½ deg at 2924'. MW 8.5ppg, Vis 26, WOB 40, RPM 20+200, PP 1350, GPM 520.

9/13/02 PO Repair swivel packing. Drill and survey from 3004' to 3601' with bit #1. NOTE: had gas kick at 2783'. Surveys: 1 ½ deg at 3172', 2 deg at 3333'. MW 9.0, Vis 41, WOB 45,000#, RPM 20 + 200, PP 1700. Mud slightly cut back due to water flow.

9/14/02 PO Drilling at 3920'. Drill to 3703', raise mud weight to kill influx, circulate out gas and water for 1 hour, POOH for new bit, GIH with bit#2 a security 11'XC33N. Drill and survey from 3703' to 3920'. Surveys: 1 ½ deg at 3633'. MW 9.2, Vis 41, WOB 50,000#, RPM 20+200, PP 1600, GPM 569, Penetration rate 13-20'/hr.

9/15/02 PO Drilling at 4375'. Drill and survey from 3920' to 4375' with bit #2. Surveys: ½ deg at 3896'. ½ deg at 4234'. MW 9.3, Vis 40, RPM 20+200, WOB 45,000#, PP 1650#, GPM 560.

9/16/02 PO Logging at 4558'. Drill and survey from 4375' to 4558' with bit #2. Short trip- no flow. POOH and RU Halliburton Loggers. Surveys: 1 ½ deg at 4296', 1 ¾ deg at 4497', MW 9.6, Vis 41, RPM 25+200, WOB 55,000#, PP 1750#, GPM 555.

9/17/02 PO Laydown Hydril. Finish logging well, GIH to 3000' and circulate out gas. POOH, Run 106 jts of 8 5/8" 32# J-55 special drift ST&C casing to 4558'. RU Halliburton and cement casing with 560 sxs of Hi-Fill at 11.0 ppg, followed by 220 sxs of Class "G" mixed at 15.6 ppg. Performed two top jobs with 150 sxs of Class "G".

9/18/02 PO WO upper kelly cock. ND divertor, cut off wellhead and casing stub, weld on 8 5/8" wellhead and test same. NU 11" 5000# BOPS, test same, Upper kelly cock failed test BLM shut down rig until new one arrives.

9/19/02 PO Drilling at 4872'. Finish testing BOP's and Kelly cock to 5000#, GIH with BHA, TOOH to change motor. GIH with 7 7/8" Security SEB 564. Drill cement and shoe and test formation to 640 psi. Drill from 4558' to 4872'. MW 8.5, Vis 28, FL 19, RPM 60, WOB 45,000#, PP 1200, GPM 358.

9/20/02 PO Drilling at 5503'. Drill Green River from 4872' to 5503' with bit #3. Survey: 2 deg at 4960'. MW 8.7, Vis 26, Ph 11.5, RPM 50+, WOB 45,000#, PP 1250, GPM 343.

9/21/02 PO Drilling at 6068'. Drill Green River and Wasatch formation with bit #3 from 5503' to 6068'. MW 8.8 DAPP, Vis 29, Ph 10, RPM 60+, WOB 45,000#, PP 1250.

9/22/02 PO Drilling at 6536'. Drill Wasatch formation with bit #3 to 6131', POOH and LD 31 jts DP and GIH with bit #4, a security 7 7/8" FM 2555. PU 32 new jts DP and drill to 6536'. MW 8.5 DAPP, Vis 26, PH 8, RPM 60+, WOB 15,000#, PP 1000, GPM 356. Bit #3 made 1573' in 55 hrs.

9/23/02 PO Tripping. Drill Wasatch from 6536' to 7602', pump slug, POOH and LD 20# DP. MW 8.6 DAPP, Vis 28, Ph 7.5, RPM 60+, WOB 10,000#, PP 1000.

9/24/02 PO Drilling at 7769'. LDDP for hardbanding, switch pipe around, GIH with BHA and drill Wasatch formation from 7602' to 7769'. MW 8.7, Vis 30, WOB 35,000#, RPM 60+, PP 1150.

9/25/02 PO Drilling at 8133'. Drill Wasatch formation from 7769' to 8133' with bit #5, a security XS-31. Bit #4, a diamond bit, was pulled green and made 1471' in 30 ½ hrs. MW 8.8, Vis 30, WOB 40,000#, RPM 40+, PP1200.

9/26/02 PO Drilling at 8507'. Drill Wasatch formation from 8133' to 8507'with bit #5. MW 9.1, Vis 30, WOB 46,000#, PP1250, RPM 40+.

9/27/02 PO Tripping for new bit. Drill Wasatch formation from 8507' to 8752' with bit #5, pump slug, POOH. MW 9.1, Vis 38, RPM 40+, PP 1300, Ph 8, Fl 20.

9/28/02 PO Drilling at 8950'. GIH with bit #6, a security XS-33, Drill Wasatch from 8752' to 8950'. MW 9.2, Vis 37, RPM 45+, WOB 48,000#, PP 1450, Bit #5 made 1150' in 78 hrs.

9/29/02 PO Drilling at 9217'. Drilled Wasatch formation from 8950' to 9217'. Made 268' in 24 hrs. MW 9.6, Vis 37, Ph 8, Cl 6100, WOB 47,000#, RPM 46+,

9/30/02 PO Drilling at 9304'. Drill to 9236 with bit #6. POOH for bit #7, a Security XS-44. Drill Mesa Verde from 9236' to 9304'. Made 87' in last 24 hrs. Bit #6 made 484' in 43 hrs. MW 9.9, Vis 38, Fl 13.6, Ph 8.0, Cl 45,000, WOB 48,000#, RPM 46+, PP 1400.

10/1/02 PO Drilling at 9503'. Drill Mesa Verde from 9304' to 9503'. Made 199' in 24 hrs with bit #7. MW 9.8, Vis 39, Fl 16, Cl 55,000, WOB 45,000#, RPM 48+, PP 1400.

10/2/02 PO Drilling at 9706'. Drill Mesa Verde from 9499' to 9706' with bit #7. MW 9.8, Vis 38, Fl 12, Ph 7, WOB 45,000#, RPM 60, PP 1450.

10/3/02 PO Drilling at 9842'. Drill Mesa Verde from 9706' to 9739' POOH for new bit, change motor, test BOP's, and GIH with bit #8, a security XS-44. GIH and drill from 9739' to 9842'. Bit #7 made 503' in 59 ½ hrs. Mw 9.8, Vis 36, Fl 12, Ph 7, WOB 45,000#, RPM 45+

10/4/02 PO Tripping for new bit. Drill Mesa Verde from 9842' to 9970' with bit #8, pump pill, and POOH, GIH with bit #9, a security XS-44. Bit #8 made 231' in 23 hrs and had a bearing failure. MW 10, Vis 40, FL 12, Ph 7.

10/5/02 PO Drilling at 10164'. Drill Mesa Verde from 9970' to 10164' with bit #9, had 3 shows from 9984' to 10115'. MW 10.2, Vis 41, Fl 12, Ph 7, Cl 70,000.

10/6/02 PO Drilling at 10430'. Drill Mesa Verde from 10164' to 10430' with bit #9, had 5 shows from 10174' to 10308'. MW 10.2, Vis 37, Fl 11.2, Cl 70,000, WOB 45,000#, RPM 60+, PP 1550.

10/7/02 PO Drilling at 10700'. Drill Mesa Verde from 10430' to 10700' with bit #9, had 2'-10' flare burning most of the day. Drilled 3 good shows from 10426'-10558'.BGG 850-2500, MW 10.2, Vis 40, Fl 10.6, Ph 7, Cl 70,000, RPM 60+, WOB 45,000#, PP 1600, GPM 341,

10/8/02 PO Drilling at 10788'. Drill Mesa Verde with bit #9 from 10,700' to 10753', pump pill, survey 2 deg at 10,700', POOH and change mud motor and bit. Replace air compressor and GIH with bit #10 , a Security XS-48. Drill from 10,753 to 10786'. Mw 10.2, Vis 42, Fl 9.6, Ph 7, Cl 70,000, WOB 45,000#, RPM 25+, SPM 106, PP 1600. Show #37, 10735-10750' 2520 units, BGG 350-1200 units.

10/9/02 PO Drilling at 10984'. Drill Mesa Verde with bit #10 from 10788' to 10984'. MW 10.2, Vis 40, Fl 9.6, Ph 7, Cl 55,000, WOB 45,000#, RPM 45+, SPM 98, PP 1600. BGG 450-500 units, no shows last 24 hrs.

10/10/02 PO Drilling at 11175'. Drill Mesa Verde with bit #10 from 10984' to 11175'. MW 10.4, Vis 44, Fl 10.2, Ph 7, Cl 57,000 WOB 45,000#, RPM 45+, PP 1600, BGG 600-1500 units, Show #38 11010'-11048' 1450 units, show #39 11116'-11128' 1250 units.

10/11/02 PO Tripping for new bit. Drilled Mesa Verde from 11175' to 11315' with bit #10, pump pill, drop survey, POOH for new bit. Mw 10.9, Vis 48, Fl 10, Ph 7, RPM 45+, WOB 45,000#, PP 1500, SPM 95, BGG 750-2000 units. Show #40 11190'-11232' 2300 units.

10/12/02 PO Drilling at 11353'. Fin POOH, function test BOP'S, GIH with bit # 11 a security XS-48. Drill Mesa Verde from 11315' to 11353'. Bit #10 made 562' in 72 ½ hrs. MW 11.1, Vis 48, Fl 10, Ph 7, Cl 65,000, WOB 45,000#, RPM 55+, PP 1500, SPM 107, BGG 800-1400.

10/13/02 PO Drilling at 11413'. Pump pill, POOH and PU new motor and bit #12, a Security XS-55, GIH and drill from 11353' to 11413'. Bit #11 made 38' in 19 ½ hrs. MW 11.1, Vis 46, Ph 7.5, Cl 75,000, WOB 45, RPM 45+, SPM 91, PP 1400.

10/14/02 PO Drilling at 11561'. Drill Mesa Verde and Castlegate from 11413' to 11561' with bit #12. MW 11.3, Vis 48, Fl 12, Ph 7, Cl 80,000, RPM 40, WOB 45,000#, PP 1500, BGG 500-1500 units.

Form 3160-4
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

5. Lease Serial No.
UTU-78433

1a. Type of Well ☐ Oil Well ☒ Gas ☐ Dry Other
b. Type of Completion: ☒ New ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name
N/A

7. Unit or CA Agreement Name and No.
N/A

2. Name of Operator
Pannonian Energy, Inc. *(a wholly-owned subsidiary of GASCO ENERGY)*

8. Lease Name and Well No.
Federal 23-21-9-19

3. Address
14 Inverness Drive East, Ste. H-236, Englewood, CO 80112

3a. Phone No. *(include area code)*
303-483-0044

9. API Well No.
43-047-34199

4. Location of Well *(Report locations clearly and in accordance with Federal requirements)* *

At surface 2139' FSL & 1991' FWL (NE/SW) of Section 21, T9S, R19E

At top prod. interval reported belo

At total depth

10. Field and Pool, or Exploratory
Riverbend

11. Sec., T., R., M., or Block and Survey or Area
Sec. 21-T09S-R19E

12. County or Parish
Uintah

13. State
UT

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, RKB, RT, GL)*
08-30-2002	10-21-2002	☐ D & A ☒ Ready to Prod. 03/27/2003	4740' GL

18. Total Depth: MD 11,875' TVD	19. Plug Back T.D MD 11,610' TVD	20. Depth Bridge Plug Se MD CIBP @ 11,654', @ 11,620'; 11,460' TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) ML - 11-18-02 HRI - 9-2002 9-20-02 & 10-25-02
GR-SP-DPN-SPL-DLL-MSF, CCL, GR, NEUTRON

22. Was well cored? ☒ No ☐ Yes (Submit copy)
Was DST run ☒ No ☐ Yes (Submit copy)
Directional ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	tage Cement Depth	No. of Sks. & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
17 1/2"	3 3/8" / H-40	48.0#	surface	233'	225'	220 sx Cl "G"		surface	
11"	8 5/8" / J-55	32.0#	surface	4,558'	4,558'	560 sx HiFill + 220 sx Cl "G"		surface	
7 7/8"	4 1/2" / P-110	13.5#	surface	11,875'	11,875'	220 sx HiFill + 2218 sx 50/50 Poz		surface	

24. Tubing Record

Size	Depth Set (MD)	cker Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD	Size	Depth Set (MD)	Packer Set (MD)

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	# Holes	Perf. Status
A) Castlegate	11,635'	11,664'	[1]11635-38'; [2]11661-64'	2½" Exp.	14	CIBP @ 11,620'
B) Castlegate	11,476'	11,525'	[1]11476-79'; [2]11522-25'	2¾" Exp.	16	CIBP @ 11,460'
C) Mesaverde	11,230'	11,374'	[1]11230-34'; [2]11296-300'; [3]11370-74'	2½" Exp 11 gr mill	24	16 of 24 open
D) Mesaverde	10,805'	10,918'	[1]10805-10'; [2]10913-18';	2½" Exp 11 gr mill	18	16 of 18 open
E) Mesaverde	10,652'	10,710'	[1]10652-55'; [2]10689-92'; [3]10707-10'	2½" Exp 11 gr mill 0.32" EHI	22	22 of 29 open
F) Mesaverde	9,805'	10,005'	[1]9805-08' [2]9947-50' [3]9977-80' [4]10002-(	2½" Exp 11 gr mill 0.32" EHI	29	15 of 24 open

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

	Depth Interval	Amount and type of Material
A)	11,635' - 11,664'	10826 gals 3% KCl w/10% meth; 83561 gals 25#/10# Delta 200 + 150000# 20/40 Ottowa & 50000# AcFrac I
B)	11,476' - 11,525'	6004 gals 3% KCl w/10% meth + 48990 gals fluid + 910 sx 20/40 PR-6000 sd
C)	11,230' - 11,374'	16500 gals 3% KCl w/10% meth + 100333 gals fluid + 216087.5# 20/40 Ottowa sd & 48615# PR-6000 sd
D)	10,805' - 10,918'	9724 gals 3% KCl w/10% meth + 50573 gals fluid + 140271# 20/40 Ottowa sd
E)	10,652' - 10,710'	16818 gals 3% KCl w/10% meth + 136065 gals Delta 200 + 400000# 20/40 Ottowa sd
F)	9,805' - 10,005'	14081 gals 3% KCl w/10% meth + 80456 gals Delta 200 + 203600# 20/40 Ottowa sd

28. Production - Interval A

Date First	Test Date	Hrs	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/23/02			→	0	123	175			
Choke Size	**Tbg. Press. Flwg. SI**	**Cs**	**24 Hr. Rate**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Oil Gravity Corr. API**	**Well Status**	
14/64"		480	→	0	123	175		CIBP @ 11,620'	

28a. Production - Interval B

Date First	Test Date	Hrs	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
02/24/02			→	0	5	108			
Choke Size	**Tbg. Press. Flwg. SI**	**Cs**	**24 Hr. Rate**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Oil Gravity Corr. API**	**Well Status**	
24/64		90	→	0	5	108		CIBP @ 11,460'	

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(See instructions and spaces for additional data on reverse side)

28C/D. Production - Interval C & D (10,805'-11,374')

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/03/03	03/05/03	24	→	0	227	29			Flowing
Choke Size	**Tbg. Press. Flwg.**	**Csg. Press.**	**24 Hr. Rate**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas : Oil Ratio**	**Well Status**	
12/64"	SI	2250	→	0	227	29		Sold	

28.E/F - Production - Interval E & F (9,805'-10,710')

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/27/03	03/30/03	24	→	0	609	130			Flowing
Choke Size	**Tbg. Press. Flwg.**	**Csg. Press.**	**24 Hr. Rate**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas : Oil Ratio**	**Well Status**	
14/64"	SI 950	1450	→	0	609	130		Sold	

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
Green River	4,872'	5,503'			
Wasatch	5,503'	9,236'			
Mesaverde	9,236'	11,561'			
Castlegate	11,561'	11,875'			

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32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
5. Core Analysis
7. Other: Daily Completion Report

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* John Longwell Title Operations Manager

Signature J Longwell Date 7-9-03

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: see attached list

2. NAME OF OPERATOR: Gasco Production Company N2575

9. API NUMBER:

3. ADDRESS OF OPERATOR: 114 Inverness Dr. East CITY Englewood STATE co ZIP 80112

PHONE NUMBER: (303) 483-0044

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: name change
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Pannonian Energy, Inc. changed its name to Gasco Production Company effective February 24, 2004
N1815

BLM Bond = UT1233
SITLA Bond = 4127764

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NAME (PLEASE PRINT) Mark J. Choury TITLE Land Manager

SIGNATURE Mark J Choury DATE 4/20/04

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold) — Designation of Agent/Operator

X Operator Name Change — Merger

The operator of the well(s) listed below has changed, effective: **2/24/2004**

FROM: (Old Operator):	**TO:** (New Operator):
N1815-Pannonian Energy, Inc.	N2575-Gasco Production Company
114 Inverness Dr E	114 Inverness Dr E
Englewood, CO 80112	Englewood, CO 80112
Phone: 1-(303) 483-0044	Phone: 1-(303) 483-0044

CA No. **Unit:**

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	
GATE CYN 31-21-11-15	21	110S	150E	4301332391	✓ 13787	State	GW	DRL	C
GATE CYN 41-20-11-15	20	110S	150E	4301332475		State	GW	APD	
WILKIN RIDGE STATE 12-32-10-17	32	100S	170E	4301332447	✓ 14033	State	GW	DRL	C
STATE 24-16-9-19	16	090S	190E	4304735588		State	GW	NEW	C
FED 23-21-9-19	21	090S	190E	4304734199	✓ 13601	Federal	GW	P	
FED 11-21-9-19	21	090S	190E	4304734608		Federal	GW	APD	
FED 42-21-9-19	21	090S	190E	4304735405		Federal	GW	APD	C
FEDERAL 31-21-9-19	21	090S	190E	4304735606		Federal	GW	APD	C
LYTHAM FED 22-22-9-19	22	090S	190E	4304734607	✓ 13640	Federal	GW	P	
FED 11-22-9-19	22	090S	190E	4304735404		Federal	GW	APD	C
FEDERAL 23-29 #1	29	090S	190E	4304734111	✓ 13441	Federal	GW	P	
FED 42-29-9-19	29	090S	190E	4304734202	✓ 13455	Federal	GW	P	
FEDERAL 43-30-9-19	30	090S	190E	4304735343		Federal	GW	APD	C
FED 32-31-9-19	31	090S	190E	4304734201	✓ 13641	Federal	GW	P	
FEDERAL 24-31-9-19	31	090S	190E	4304735623		Federal	GW	NEW	C
FEDERAL 41-31-9-19	31	090S	190E	4304735624		Federal	GW	APD	C
FEDERAL 21-6-10-19	06	100S	190E	4304734813		Federal	GW	LA	C
FED 22-30-10-18	30	100S	180E	4304734924		Federal	GW	APD	C
LAFKAS FED 1-3	03	110S	200E	4304731178	✓ 1367	Federal	GW	S	
WILLOW CREEK UNIT 2	05	110S	200E	4304731818	✓ 11604	Federal	GW	TA	
HILL FEDERAL 1-10	10	110S	200E	4304731026	✓ 1368	Federal	GW	TA	

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/22/2004
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/22/2004
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 4/21/2004
4. Is the new operator registered in the State of Utah: YES Business Number: ***
5. If **NO**, the operator was contacted contacted on: *** 4/21/2004

6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM in process BIA

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: in process

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 4/29/2004
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 4/29/2004
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 4/22/2004

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: 4127764

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 4127759

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 4127765

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a

2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:
This is a corporate name change within the same corporation and it's subsidiaries

WELL NAME	API #	LOCATION	COUNTY	Status
Federal 23-29 #1	43-047-34111	NESW, Sec. 29, T9S, R19E	Uintah	P
Federal 42-29-9-19	43-047-34202	SENE, Sec. 29, T9S, R19E	Uintah	P
Lytham Federal 22-22-9-19	43-047-34607	SENW, Sec. 22, T9S, R19E	Uintah	P
Federal 32-31-9-19	43-047-34201	SWNE, Sec. 31, T9S, R19E	Uintah	P
Alger Pass Unit #1	43-047-31824	SWNE, Sec. 2, T11S, R19E	Uintah	P
Gate Canyon State 31-21-11-15	43-013-32391	NWNE, Sec. 21, T11S, R15E	Duchesne	DRL
Wilkin Ridge State 12-32-10-17	43-013-32447	SWNW, Sec. 32, T10S, R17E	Duchesne	DRL
Willow Creek # 2	43-047-31818	SESW, Sec. 5, T11S, R20E	Uintah	TA
Hill Federal #1-10	43-047-31026	NESW, Sec. 10, T11S, R20E	Uintah	TA
Federal 23-21-9-19	43-047-34199	NESW, Sec. 21, T9S, R19E	Uintah	P
Federal 43-30-9-19	43-047-35343	NESE, Sec. 30, T9S,R19E	Uintah	APD
Gate Canyon State 41-20-11-15	43-013-32475	NENE, Sec. 20, T11S,R15E	Duchesne	APD
Federal 11-21-9-19	43-047-34608	NWNW, Sec. 21, T9S,R19E	Uintah	APD
Federal 11-22-9-19	43-047-35404	NWNW, Sec. 22, T9S,R19E	Uintah	APD
Federal 22-30-10-18	43-047-34924	SENW, Sec. 30, T10S,R18E	Uintah	APD
State 24-16-9-19	43-047-35588	SESW, Sec. 16, T9S, R19E	Uintah	NEW
Lafkas Federal 1-3	43-0473-31178	SWSW, Sec. 3, T11S, R20E	Uintah	S
Federal 21-6-9-19	43-047-34813	NENW, Sec. 6,T9S,R19E	Uintah	APD
Federal 42-21-9-19	43-047-35405	SENE, Sec. 21, T9S, R19E	Uintah	APD
Federal 31-21-9-19	43-047-35606	NWNE, Sec. 21, T9S, R19E	Uintah	APD
Federal 41-31-9-19	43-047-35624	NENE, Sec. 31, T9S, R19E	Uintah	APD
Federal 24-31-9-19	43-047-35623	SESW, Sec. 31, T9S, R19E	Uintah	NEW
Wilkin Ridge Federal 34-17-10-17	43-013-32560	SWSE, Sec. 17, T10S,R17E	Duchesne	APD

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
http://www.blm.gov

TAKE PRIDE IN AMERICA

IN REPLY REFER TO:
3106
(UT-924)

May 18, 2004

Memorandum

To: Vernal Field Office, Moab Field Office

From: Chief, Branch of Minerals Adjudication

Subject: Name Change Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the name change from Pannonian Energy Inc., into Gasco Production Company is effective February 24, 2004.

/s/ Robert Lopez

Robert Lopez
Chief Branch of
Minerals Adjudication

Enclosure
1. State of Utah Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114
Teresa Thompson
Joe Incardine
Connie Seare

Nordstrom:05/18/2004

Delaware

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "PANNONIAN ENERGY INC.", CHANGING ITS NAME FROM "PANNONIAN ENERGY INC." TO "GASCO PRODUCTION COMPANY", FILED IN THIS OFFICE ON THE TWENTY-FOURTH DAY OF FEBRUARY, A.D. 2004, AT 12:43 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

2899291 8100

040133641

AUTHENTICATION: 2963993

DATE: 03-02-04

Gasco Production

api	twsp	rng	sec	well_name	lease_num	stat	la_pa
4304734168	090S	190E	20	FED 24-20-9-19	UTU-75090	DRL	
4304734169	090S	190E	20	FED 44-20-9-19	UTU-75090	DRL	
4304734199	090S	190E	21	FED 23-21-9-19	UTU-78433	P	
4304734608	090S	190E	21	FED 11-21-9-19	UTU-78433	DRL	
4304735405	090S	190E	21	FED 42-21-9-19	UTU-78433	APD	
4304735606	090S	190E	21	FEDERAL 31-21-9-19	UTU-78433	APD	
4304734607	090S	190E	22	LYTHAM FED 22-22-9-19	UTU-78433	P	
4304735404	090S	190E	22	FED 11-22-9-19	UTU-78433	DRL	
4304733653	090S	190E	29	FEDERAL 31-29	UTU-76262	P	
4304733750	090S	190E	29	FEDERAL 34-29	UTU-76034	P	
4304734111	090S	190E	29	FEDERAL 23-29 #1	UTU-76262	P	
4304734202	090S	190E	29	FED 42-29-9-19	UTU-76262	P	
4304735343	090S	190E	30	FEDERAL 43-30-9-19	UTU-37246	DRL	
4304734201	090S	190E	31	FED 32-31-9-19	UTU-76489	P	
4304735623	090S	190E	31	FEDERAL 24-31-9-19	UTU-01988OA	APD	
4304735624	090S	190E	31	FEDERAL 41-31-9-19	UTU-019880A	APD	
4304734286	100S	170E	12	PETES WASH 23-12 #1	UTU-77063	P	
4301332560	100S	170E	17	WILKIN RIDGE FED 34-17-10-17	UTU-043615	APD	
4304734551	100S	170E	24	FED 43-24-3 #1	UTU-74401	P	
4304733983	100S	180E	07	FEDERAL 24-7 #1	UTU-68387	P	
4304734539	100S	180E	18	FED 14-18-2 #1	UTU-74971	P	
4304735808	100S	180E	22	FEDERAL 11-22-10-18	UTU-018260A	APD	
4304734924	100S	180E	30	FED 22-30-10-18	UTU-74408	APD	
4304734813	100S	190E	06	FED 21-6-10-19	UTU-76490	LA	3/30/2004
4304731178	110S	200E	03	LAFKAS FED 1-3	U-34350	S	
4304731818	110S	200E	05	WILLOW CREEK UNIT 2	U-39223	TA	
4304731026	110S	200E	10	HILL FEDERAL 1-10	U-44089	TA	

Form 3160- 5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No 1004- 0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - *Other Instructions on reverse side.*

5. Lease Serial No.
UTU-78433

6. If Indian, Allottee, or Tribe Name
NA

7. If Unit or CA. Agreement Name and/or No
NA

1. Type of Well
[ ] Oil Well [X] Gas Well [ ] Other

8. Well Name and No.
Federal 23-21-9-19

2. Name of Operator
Gasco Production Company

9. API Well No.
43-047-34199

3a. Address
8 Inverness Drive East Ste 100 Englewood, Co 80112

3b. Phone No *(include area code)*
303-483-0044

10. Field and Pool, or Exploratory Area
Riverbend

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
2139' FSL & 1991' FWL NE SW of Section 21-T9S-R19E

11. County or Parish, State
Uintah County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
[ ] Notice of Intent	[ ] Acidize	[ ] Deepen	[ ] Production (Start/ Resume)	[ ] Water Shut-off
	[ ] Altering Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[X] Subsequent Report	[ ] Casing Repair	[ ] New Construction	[ ] Recomplete	[ ] Other
	[ ] Change Plans	[ ] Plug and abandon	[ ] Temporarily Abandon	
[ ] Final Abandonment Notice	[ ] Convert to Injection	[ ] Plug back	[X] Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

This is to inform you that we will be disposing of water from this well as follows:

All produced water from this well will be trucked off the location and disposed of at Brennan bottom Water Disposal located between Roosevelt and Vernal Utah.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
APR 2 6 2006
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.

Name *(Printed/ Typed)*
Beverly Walker

Title
Engineering Technician

Signature

Date
April 20, 2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitiousor fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Form 3160- 5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No 1004- 0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - *Other Instructions on reverse side.*

5 Lease Serial No
UTU-78433

6 If Indian, Allottee, or Tribe Name
NA

7 If Unit or CA Agreement Name and/or No
NA

1 Type of Well
[ ] Oil Well [X] Gas Well [ ] Other

8 Well Name and No
Federal 23-21-9-19

2 Name of Operator
Gasco Production Company

9 API Well No
43-047-34199

3a Address
8 Inverness Drive East Ste 100 Englewood, Co 80112

3b Phone No *(include area code)*
303-483-0044

10 Field and Pool, or Exploratory Area
Riverbend

4 Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
2139' FSL & 1991' FWL NE SW of Section 21-T9S-R19E

11 County or Parish, State
Uintah County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
[ ] Notice of Intent	[ ] Acidize	[ ] Deepen	[ ] Production (Start/ Resume)	[ ] Water Shut-off
	[ ] Altering Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[X] Subsequent Report	[ ] Casing Repair	[ ] New Construction	[ ] Recomplete	[X] Other
	[ ] Change Plans	[ ] Plug and abandon	[ ] Temporarily Abandon	EFM Meter
[ ] Final Abandonment Notice	[ ] Convert to Injection	[ ] Plug back	[ ] Water Disposal	

13 Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

This sundry is being sent to inform you that we will be using a Total Flow to measure production from this well and will be considered as the point of sale for gas produced from this well. A temperature probe has been installed for gas measurement purposes. This unit does have a digital readout display and will be inspected and proved according to all BLM regulations.

RECEIVED
APR 2 6 2006
DIV. OF OIL, GAS & MINING

14 I hereby certify that the foregoing is true and correct.

Name *(Printed/ Typed)*
Beverly Walker

Title
Engineering Technician

Signature
Beverly Walker

Date
April 20, 2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitiousor fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.: *UTU-78433*

6. If Indian, Allottee or Tribe Name: *NA*

7. If Unit or CA/Agreement, Name and/or No.: *NA*

1. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.: *Federal 23-21-9-19*

2. Name of Operator: *Gasco Production Company*

9. API Well No.: *043-047-34199*

3a. Address: *8 Inverness Dr E, Englewood, Colorado 80112*

3b. Phone No. *(include area code)*: *303-483-0044*

10. Field and Pool, or Exploratory Area: *Riverbend*

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*: *2139' FSL & 1991' FWL NE SW of Section 21-T9S-R19E*

11. County or Parish, State: *Uintah County, Utah*

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other *Calibrate Meter*
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

This well is scheduled to have the sales meter calibrated on April 26, 2006 at 2:00 p.m.

RECEIVED
APR 2 6 2006
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Name *(Printed/Typed)*: *Beverly Walker* — Title: *Engineering Technician*

Signature: *Beverly Walker* — Date: *April 20, 2006*

THIS SPACE FOR FEDERAL OR STATE USE

Approved by — Title — Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. — Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

Accepted by the
Utah Division of
Oil, Gas and Mining
For Record Only

GASCO Energy Inc

Gasco Production Company
Federal 23-21-9-19
NE SW of Section 21-T9S-R19E
Uinta County Utah,
043-047-34199

RECEIVED
SEP 05 2008
DIV. OF OIL, GAS & MINING

12/03/02	MI J&R construction. Cln loc. Fill in cellar & mousehole. WO prod'n tnks & separator. DC: $ 1,284 CC:	$ 1,284
12/04/02	No activity. DC: $ 303 CC:	$ 1,584
12/05/02	Bldg prod'n fac. UL PL pipe off trucks & set prod'n tnks. WO last load of pipe and separator. DC: $ 4,919 CC:	$ 6,503
12/06/02	MI & UL separator, dehydrator & parts. MI, UL & install flwback manifold. Lay out flwback lines. MI frac tnks. DC: $ 2,650 CC:	$ 9,153
12/07/02	RU CTU. RIH & cln out to PBTD @ 11,830'. POH. RD mud motor. Blw tbg dry. RD. DC: $35,168 CC:	$44,320
12/08/02	SDFS. No activity. DC: $ 304 CC:	$44,625
12/09/02	SDFS. No activity. DC: $ 304 CC:	$44,929
12/10/02	Install walkway & stairs. Install heat trace loop in tnks. Weld 30 jts PL. DC: $ 4,580 CC:	$49,509
12/11/02	Bld prod'n fac. Plumb in heat trace lines. Set separator. Plumb in blw dwn line to wtr tnk. Weld 30 jts. DC: $ 1,510 CC	$ 51,018
12/12/02	Bld prod'n fac. Weld flw line. Make-up 1" heat trace line to WH. Dig trench fr/ WH to separator. Plumb in heat trace pmp. DC: $24,869 CC:	$75,888
12/13/02	Fin welding 8" PL to road crossing. Fin flw line & heat trace lines to WH & install. Cover trench. MI & spot frac tnks. Start hook-up on dehy. Weld flw line fr/separator to dehy.	

DC: $10,528 CC: $86,416

12/14/02 Fin PL tie-in to #42-29. Install meter run & fin all welding & heat trace. Start filling frac tnks w/3% KCl.
DC: $ 1,750 CC: $88,165

12/15/02 Haul frac wtr. Fin filling frac tnks.
DC: $ 1,969 CC: $90,134

12/16/02 SDFS.
DC: $ 598 CC: $90,732

12/17/02 Run dmp vlv lines. Plumb wtr & oil tnks. Install vlvs in 8" PL.
DC: $ 1,879 CC: $92,611

12/18/02 PT csg to 8700#/30 min – tst gd. RU HLS WL. RIH w/CCL, GR, Neutron logging tools. Log up to 11,475'-6,000'. POH. LD logging tools. RIH w/perf guns. **Perf Castlegate fr/ 11,661'-64' & 11,635'-38',** w/2½" scalloped gun, 11 gr mill charges, 0.32" EHD, 120° phasing, 2 spf, total 14 shots. RDWL. Heat wtr for frac. Roll tnk w/meth.
DC: $15,046 CC: $107,657

12/19/02 Pmp step dwn 262 gal 3% KCl w/10% meth, brk @ 4859 psi. Kick rate up to 18.5 BPM @ 5600#. Pmp 9700 gal 3% KCl w/10% meth. Step dwn to 10 BPM @ 4850 psi, pmp 525 gal 3% KCl w/10% meth. Step dwn to 3.7 BPM @ 4120 psi, pmp 399 gal 3% KCl w/10% meth. ISIP 3750 psi, 5 min 3627 psi-10 min 3588 psi-15 min 3564 psi. Calc open perfs, found 9 open of 14 shot. Frac CG fmn as follows:

Stage 1 – Pmp Pad
12000 gal 25# Delta 200 @ 17.9 BPM @ AIP 5421 psi
Stage 2
Pmp 14008 gal 25# Delta 200 1-2.2 ppg 20/40 Ottowa #12701 prop in stage
AIR 17.9 BPM @ AIP 4965 psi
Stage 3
Pmp 41003 gal 25# Delta 200 2.2-4 ppg 20/40 Ottowa #23750 prop in stage
AIR 18.0 BPM @ AIP 4422 psi
Stage 4
Pmp 9340 gal 25# Delta 200 4-5 ppg 20/40 AcFrac PR-6000 #27869 prop in
Stage. AIR 20.3 BPM @ AIP 4320 psi.
Stage 5 – Flush
Pmp 7210 gal 10# Delta 200 frac fluid. Stop flush 2 bbls short of top shot.
AIR 18.0 BPM @ AIP 4600 psi.

Job total: Pmpd 10826 gals 3% KCl w/10% meth. Frac w/83561 gals proppant & 200,000# sd (150,000# 20/40 Ottowa + 50,000# AcFrac PR-6000). ISIP 4700 psi-5 min 4507 psi. RD frac iron. Start flwback on 8/64" chk. Change chk to 10/64", hvy gel & sd. Cut out nipple & chk in flwback line & change out to 8/64". Flwback frac. IFP 4100 psi, FFP 2975 psi, ARO 37 BPH, tr sd & med gel. TBLWTR 2270, BLWR 544, BLWLTR 1726.
DC: $118,369 CC: $226,027

12/20/02 Flw back frac.

Time	Choke	FTP #	BPH	
07:00	8/64"	2900	35	Lt gel, no sd
08:00	10/64"	2800	39	Lt gel
09:00	10/64"	2700	43	Broke gel
10:00	10/64"	2625	43	Broke gel
11:00	10/64"	2550	44	Broke gel
12:00	10/64"	2450	44	Broke gel
13:00	10/64"	2250	43	Broke gel
14:00	10/64"	2250	43	Broke gel
15:00	10/64"	2175	24	Broke gel
16:00	10/64"	2100	48	Broke gel
17:00	10/64"	2000	45	Broke gel
18:00	10/64"	1900	48	Broke gel
19:00	10/64"	1750	38	Broke gel
20:00	10/64"	1700	29	Broke gel
21:00	10/64"	1600	27	Broke gel
22:00	10/64"	1550	29	Broke gel
23:00	10/64"	1450	30	Broke gel
24:00	10/64"	1400	26	Broke gel
01:00	10/64"	1300	26	Broke gel
02:00	10/64"	1250	28	Broke gel
03:00	10/64"	1150	29	Broke gel
04:00	10/64"	1100	19	Broke gel, first gas
05:00	10/64"	1100	24	Broke gel
06:00	10/64"	950	19	Chg chk to 8/64"

BLWR 828, TBLWR 1372, BLWLTR 898. Tst PL to 560 psi. SION.

12/21/02 Flw back frac.

Time	Choke	FTP #	BPH	
07:00	8/64"	1150	20	Wtr w/slight gas
08:00	8/64"	1120	14	Wtr w/gas
09:00	8/64"	1100	19	Wtr w/gas
10:00	8/64"	1050	17	Wtr w/gas
11:00	8/64"	1030	13	Wtr w/gas
12:00	14/64"	1020	19	Wtr w/gas

12/21/02 (cont.)

Time	Choke	FTP #	BPH	
13:00	14/64"	600	31	Wtr w/gas
14:00	14/64"	580	26	Wtr w/gas
15:00	14/64"	580	28	Wtr w/gas
16:00	14/64"	650	30	Wtr w/gas
17:00	14/64"	540	18	Wtr w/gas
18:00	14/64"	500	21	Wtr w/slight incr in gas
19:00	14/64"	500	18	Wtr w/gas
20:00	14/64"	500	17	Wtr w/gas
21:00	14/64"	500	17	Wtr w/gas
22:00	14/64"	500	22	Wtr w/gas
23:00	14/64"	500	13	Wtr w/gas
24:00	14/64"	500	12	Wtr w/gas

01:00	14/64"	500	18	Wtr w/gas
02:00	14/64"	500	15	Wtr w/gas
03:00	14/64"	500	19	Wtr w/gas
04:00	14/64"	500	14	Wtr w/gas
05:00	14/64"	500	15	Wtr w/gas
06:00	14/64"	500	9	Wtr w/gas

TBLWR 1798, BLWLTR 453.
DC: $ 3,343 CC: $236,233

12/22/02 Flw back frac

Time	Choke	FTP #	BPH	
07:00	14/64"	475	20	Wtr w/slight gas
08:00	14/64"	450	16	Wtr w/gas
09:00	14/64"	450	18	Wtr w/gas
10:00	14/64"	450	19	Wtr w/gas
11:00	14/64"	450	13	Wtr w/gas, Cl 11120, pH 7
12:00	14/64"	440	9	Wtr w/gas
13:00	14/64"	440	13	Wtr w/gas
14:00	14/64"	450	12	Wtr w/gas
15:00	14/64"	420	9	Wtr w/gas
16:00	14/64"	430	9	Wtr w/gas
17:00	14/64"	410	13	Wtr w/gas
18:00	14/64"	400	8	Wtr w/gas
19:00	14/64"	400	17	Wtr w/gas
20:00	14/64"	375	8	Wtr w/gas
21:00	14/64"	375	9	Wtr w/gas, Cl 10700, ph 7
22:00	14/64"	375	18	Wtr w/gas
23:00	14/64"	350	5	Wtr w/gas
24:00	14/64"	360	9	Wtr w/gas
01:00	14/64"	360	15	Wtr w/gas
02:00	14/64"	370	10	Wtr w/gas
03:00	14/64"	360	9	Wtr w/gas
04:00	14/64"	360	10	Wtr w/gas, wtr slugging
05:00	14/64"	355	5	Wtr w/gas, Cl 9000, ph 7.5
06:00	14/64"	355	4	Wtr w/gas

BLWR 278, TBLWR 2095, BLWLTR 175. Gas rate estimate @ ±300 MCFD. Wtr slugging into tnk, sml slugs about every 20-30 secs.
DC: $ 3,703 CC: $239,937

12/23/02 Flw back frac.

Time	Choke	FTP #	BPH	
07:00	14/64"	355	10	Slugs, wtr & gas
08:00	14/64"	355	10	Slugs, wtr & gas
09:00	14/64"	355	9	Slugs, wtr & gas
10:00	14/64"	350	7	Slugs, wtr & gas

	12:00	14/64"	340	4	Slugs, wtr & gas
	13:00	14/64"	340	13	Slugs, wtr & gas
12/23/02	**Time**	**Choke**	**FTP #**	**BPH**	
(cont.)	11:00	14/64"	355	9	Slugs, wtr & gas
	14:00	14/64"	330	9	Slugs, wtr & gas, Cl 8000, ph 7.0
	15:00	14/64"	330	9	Slugs, wtr & gas
	16:00	14/64"	330	8	Slugs, wtr & gas
	17:00	14/64"	320	9	Slugs, wtr & gas
	18:00	14/64"	315	4	Slugs, wtr & gas
	19:00	14/64"	310	9	Slugs, wtr & gas
	20:00	14/64"	305	9	Slugs, wtr & gas
	21:00	14/64"	300	9	Slugs, wtr & gas
	22:00	14/64"	300	5	Slugs, wtr & gas, Cl 8000, ph 7.5
	23:00	14/64"	295	9	Slugs, wtr & gas
	24:00	14/64"	295	5	Slugs, wtr & gas
	01:00	14/64"	295	10	Slugs, wtr & gas
	02:00	14/64"	290	10	Slugs, wtr & gas
	03:00	14/64"	295	4	Slugs, wtr & gas
	04:00	14/64"	290	4	Slugs, wtr & gas
	05:00	14/64"	280	10	Slugs, wtr & gas, Cl 7000, ph 7.0
	06:00	14/64"	280	9	Slugs, wtr & gas

BLWR 175, TBLWR 2270. Gas rate estimate @ ±200 MCFD.
DC: $ 3,343
CC: $243,280

12/24/02 Flw back frac.

Time	**Choke**	**FTP #**	**BPH**	
07:00	14/64"	275	10	Slugs, wtr & gas
08:00	14/64"	275	5	Slugs, wtr & gas
09:00	14/64"	275	5	Slugs, wtr & gas

	10:00	14/64"	275	4	Slugs, wtr & gas
	11:00	14/64"	275	4	Slugs, wtr & gas

SI f/PBU. Open to sep on 10/64" chk to press up sep & Dehy. **Turn gas dwn sales line on 14/64" chk, FTP fr/ 480 psi-120 psi, spot reading fr/ 36 MCFD-123 MCFD, LP 92 psi.** Glychol pmp not functioning. WO pmp that will lower press. Will repair dmp on sep.
DC: $ 3,343
CC: $246,624

12/25/02 Flw well to sep. Re-plumb heat trace line output. LP 150 psi. SI f/PBU.
DC: $ 3,343
CC: $249,967

12/26/02 SI f/PBU.
DC: $ 570
CC: $250,537

12/27/02 SICP 700 psi. Re-plumb wtr & oil dmp line. Turn well to sep on 8/64" chk & press up sep & dehy. Well making all wtr. Lost gas press. Turn well to tst tnk on 14/64" chk.

Time	Choke	FTP #	BPH	
13:00	10/64"	700		Open to sep
14:00	14/64"	500		Open to tst tnk
15:00	14/64"	400	17	
16:00	14/64"	180	13	Chng out chk
17:00	18/64"	180	26	
18:00	18/64"	280	43	
19:00	18/64"	550	12	
20:00			10	SI to bld gas

WSI. Drain flw back manifold & use gas to blw dry. Blw line from WH to sep dry w/gas. Heat frac tnks to thaw out frzn dmp lines.
DC: $10,595
CC: $261,131

12/28/02 PU stainless tbg & fittings. Thaw out frzn dmp lines. Open to gas sales line on 14/64" chk/5 hrs, 32 BW. Spot sales rate 80 MCFD.
DC: $ 6,263
CC: $267,394

12/29/02 Flwg to sales on 18/64" chk, 82 MCFD [spot flw rate 92 MCFD], 2 BO & 199 BW, FCP 375 psi, LP 281 psi. Chl 7600, pH 7.0.
DC: $ 1,880
CC: $269,274

12/30/02 Flw to sales on 18/64" chk, 21 MCFD, 0 BC, 0 BW, FCP 50 psi, LP 52 psi.
DC: $ 660
CC:
$269,933

12/31/02 SIW.
DC: $ 660
CC:
$270,593

01/01/03 SI f/PBU.
DC: $ 660
CC:
$271,252

01/02/03 SI f/PBU.
DC: $ 660
CC:
$271,912

01/03/03 That frzn vlvs on flw back manifold. Open well on 10/64" chk to tst tnk. Gas press came off in 1 min & brought dwn wtr well press dwn to 100 psi. Open chk to 26/64":

Time	Choke	FTP #	BBLS	
11:00	26/64"	50		
12:00	26/64"	75	49	
13:00	26/64"	150	39	
14:00	26/64"	550	64	
15:00	24/64"	650	42	
16:00	24/64"	400	24	CL 10800, pH 7.0
17:00	24/64"	75	15	Press dropped to 25 psi
18:00	24/64"	100	5	
19:00	24/64"	75	4	Wtr thru chk/30 secs then gas/5 secs. Hauled out 228 BW
20:00	24/64"	75	13	Wtr thru chk/20 secs; gas/10 secs.
21:00	open	50	25	Gas & wtr slugs
22:00	open	0		No flw
23:00	open		9	No flw

Est gas 10% w/90% wtr coming thru chk. SI f/PBU. Drain lines & put some meth in flw back manifold.
DC: $ 1,963
CC: $273,875

01/04/03 SI f/PBU. SICP 800 psi. Open to tst tnk on 14/64" chk. Open to sep on 6/64" chk. Well press decr'd to 200 psi/25 min. Close chk @ sep & open on manifold to about 28/64". 0 psi/2 min after opening chk. Open well to pit through 2" vlv – slight gas blw. Dropped 4 soap sticks & watched well. No flw. SI f/PBU.
DC: $ 2,678
CC: $276,552

01/05/03 SI f/PBU. SICP 450 psi.

DC: $ 1,918
CC: $278,470

01/06/03 SI f/PBU. SICP 700 psi.
DC: $ 570
CC: $279,039

01/07/03 SI f/PBU. SICP 750 psi.
DC: $ 570
CC: $279,609

01/08/03 SICP 850 psi. Open to tst tnks on 14/64" chk. Press decr'd to 200 psi in <1 min. Open chk to 28/64", press decr'd to 0 psi/2 min. Open well to pit on open 2" vlv. Slight blw seen on line. Wtr trickling out of 2" line & stream cont'd to grow. Turn to tst tnk on full open chk.

01/08/03 **(cont.)**

Time	Choke	PSI	Bbls	
09:30	Open	0	13	
10:30	Open	4	13	All wtr
11:30	32/64"	10	23	All wtr
12:30	32/64"	40	26	All wtr
13:30	32/64"	160	47	Wtr, slight gas, pH 7, Chl 8600
14:30	32/64"	240	53	30 sec wtr, 5 sec gas & wtr
15:30	32/64"	125	33	25 sec wtr, 10 sec gas & wtr
16:30	32/64"	25	10	All gas; hauled out 140 BW
17:30	32/64"	100	8	25 sec wtr, 5 sec gas, press dropping
18:00	32/64"	25		Mostly gas, slight wtr
18:30	32/64"	0	5	Slight gas blw
19:30	32/64"	0	0	No gas blw. SIW.

SI f/PBU. Press built to 25 psi/1 hr. Blw manifold out & SI.
DC: $30,395
CC: $310,004

01/09/03 SICP 950 psi. Open well to tst tnk on 14/64" chk. Press decr'g slowly. Cont to open chk to 32/64", press dropped to 0 psi/30 min – no flw. Open to pit on 2" line/1 hr. Small amt of gas vapor coming out of line. SIW. Press incr'd to 10 psi/1 hr.
DC: $ 1,790
CC: $311,793

01/10/03 SICP 450 psi. WSI.
DC: $ 600
CC: $312,393

01/11/03 SICP 450 psi. WSI.

DC: $ 600
CC: $312,992

01/12/03 SICP 750 psi. WSI
DC: $ 600
CC: $313,592

01/13/03 SICP 850 psi. WSI.
DC: $ 600
CC: $314,192

01/14/03 SICP 950 psi. WSI.
DC: $ 600
CC: $314,792

01/15/03 SICP 1000 psi. WSI.
DC: $ 600
CC: $315,392

01/16/03 SICP 1050 psi. WSI.
DC: $ 600
CC: $315,990

01/17/03 SICP 1100 psi. WSI. Prep to RIH w/gauge ring & set plug.
DC: $ 600
CC: $316,590

01/18/03 SICP 1175 psi. RU WL. Thaw out equalizer hose. Equalize well & lubricator. TIH w/JB & GR. Tag @ 11,714'. TOH. LD JB & GR. PU CIBP & TIH. Set @ 11,654'. TOH. RD. SION.
DC: $10,016
CC: $326,606

01/19/03 SICP 1150 psi. Open to tst tnk on 14/64" chk. Press dropping fast. Open chk to 48/64" as pressure dropped & then wide open. Open to pit on full 2" line. 0 psi/2 min. Fluid coming out of 2" line after 5 min. Turn to tnk on full open chk.

Time	Choke	PSI	Bbls	
09:00	Open	2	19	All wtr
10:00	48/64"	4	21	Wtr, little gas
11:00	32/64"	8	18	Wtr, little gas
12:00	32/64"	12	13	Wtr, little gas
13:00	32/64"	38	25	Wtr, little gas
14:00	32/64"	70	35	Wtr slugs/15 sec, gas/5 sec

01/19/03 (Cont.)

Time	Choke	PSI	Bbls	
15:00	32/64"	25	30	Wtr/10 sec, gas/3 sec. Chl 8280, pH 7.0
16:00	32/64"	60	33	Wtr/3 sec, gas w/little wtr/20 sec
16:30	32/64"	80	0	All gas, no fluid. Press dropping
17:00	32/64"	8	20	All gas, no fluid

17:30	32/64"	40		Gas & sml wtr slugs
18:00	32/64"	35	9	Mostly gas, sml wtr slugs.
				Chl 8560, ph 7.0
18:30	32/64"	0		Slight gas blw
19:00	32/64"	20	0	Gas w/sml wtr slugs
19:30	32/64"	40		Gas w/sml wtr slugs
20:00	32/64"	10	10	All gas, no fluid
20:30	32/64"	0		Slight gas blw
21:00	32/64"	0	0	No gas blw

SI. Bld to 20 psi. Blw dwn manifold. SION.
DC: $ 1,958
CC: $328,563

01/20/03 SICP 1000 psi. Open to tst tnk on 14/64" chk & cont'd to open chk to 32/64" as press dropped. Open to pit on full open chk when press reached 250 psi. Total blw dwn time/20 min. Close chk & open to pit on full 2" line, no gas blw. No flw. SI & installed 100 psi gauge. Press built to 20 psi/1 hr of being SI. Blw dwn manifold w/20 psi of gas press. SIW.
DC: $ 1,880
CC: $330,443

01/21/03 SICP 450 psi. SI f/PBU.
DC: $ 599
CC: $331,041

01/22/03 SICP 650 psi. SI f/PBU.
DC: $ 599
CC: $331,640

01/23/03 SICP 750 psi. SI f/PBU.
DC: $ 599
CC: $332,239

01/24/03 SICP 800 psi. SI f/PBU. SD sep on loc. Blw dwn the gas sales line. Dig out 2" road crossing @ the 'N' point. Replace w/& install 4".
DC: $ 3,680
CC: $335,918

01/25/03 SICP 860 psi. SI f/PBU. Fin road crossing. Replace controllers on dmp vlvs & replace hammer union on flw loop. WO 3" meter run.
DC: $ 1,879
CC: $337,797

01/26/03 SICP 850 psi. SI f/PBU.
DC: $ 598
CC: $338,395

01/27/03 SICP 950 psi. SI f/PBU.
DC: $ 598
CC: $338,993

01/28/03 SICP 1000 psi. SI f/PBU.

DC: $15,697
CC: $354,690

01/29/03 SICP 1100 psi. Flw tst well as follows:

Time	Choke	PSI	BPH	
09:15	12/64"	1100		Open to frac tnk
09:30	12/64"	300		Gas
09:45	12/64"	175		Fluid – wr
10:00	12/64"	175		Wtr
10:15	12/64"	160	16	
11:15	12/64"	200	20	Open to 14/64" chk
12:15	14/64"	210	11	100% wtr

01/29/03 (cont.)

Time	Choke	PSI	BPH	
13:15	14/64"	210	9	100% wtr w/gas
14:15	20/64"	24	9	100% wtr w/gas
15:15	20/64"	20	3	Gas & wtr

TBWR 67. SI f/PBU.
DC: $ 1,858
CC: $356,548

01/30/03 SICP 1100 psi. Flw tst well:

Time	Choke	PSI	BPH	
09:00	16/64"	900		
10:00	16/64"	375	6	
11:00	32/64"	5	19	
12:00	32/64"	0	13	
13:00	32/64"	0	12	
14:00	32/64"	0	10	
15:00	32/64"	0	9	
16:00	32/64"	20	29	gas/wtr
17:00	3264"	30	21	gas/wtr

Tst coils on sep. SI f/PBU.
DC: $ 1,858
CC: $358,406

01/31/03 SICP 1200 psi. SI f/PBU. Install 3" meter run @ Phillips PL tie-in. Flw tst as follows:

Time	Choke	PSI	BPH	
10:00	16/64"	1200		Blew to 0 psi/40 min.
11:00	open			No flw
12:00	open			No flw. SI f/PBU.
13:00	32/64	0	7	Wtr
14:00	32/64	0	7	Wtr
15:00	32/64"	0	8.5	Wtr/gas
16:00	32/64"	6	10	Wtr/gas
17:00	32/64"	10	8.5	Wtr/gas
18:00	32/64"	10	11	Wtr/gas. SI f/PBU.

DC: $ 1,858
CC: $360,264

02/01/03 SICP 900 psi. Flw tst to frac tnk. Opened on 12/64" chk. Straight gas/2 hrs, press dropped to 58 psi when fluid started. Made 14 BF w/very little gas. SI w/200 psi. WOO.
DC: $ 1,858
CC: $362,122

02/02/03 SICP 600 psi.
DC: $ 1,858
CC: $363,980

02/03/03 SICP 750 psi.
DC: $ 599
CC: $364,579

02/04/03 SICP 800 psi. Open to tst tnk on 14/64" chk – all gas. Pressure dropping rapidly. As press dropped, opened chk to 28/64". When press reached 100 psi, open well to pit on full open 2" line. Press 0 psi after 2 min of opening well to tst tnk. After being open to pit/5 min, wtr started flwg out of 2" line. Closed to pit & put back into tst tnk on 32/64" chk. Press incr'd to 20 psi briefly & dropped to 2 psi. Flw to tst tnk ARO 153 BW. Avg wtr rate 11 BPH. No gas to very little gas is brk'g out of the wtr.
DC: $ 1,879
CC: $366,458

02/05/03 Flw to tst tnk on 32/64" chk – gas blw to tnk @ 0 psi. Chkd back to 10/64". Press incr'd to 70 psi/4 hrs & still flwg small amt of gas. Press dropped to 0 psi/3 hrs. Well died. SIW.
DC: $ 1,879
CC: $368,336

02/06/03 SICP 640 psi. WSI.
DC: $ 599
CC: $368,935

02/07/03 SICP 800 psi. WSI.
DC: $ 598
CC: $369,533

02/08/03 SICP 900 psi. WSI.
DC: $ 599
CC: $370,132

02/09/03 SICP 950 psi. WSI.
DC: $ 598
CC: $370,730

02/10/03 SICP 1050 psi. WSI.
DC: $ 599
CC: $371,329

02/11/03 SICP 1100 psi. WSI. Prep to flw well.
DC: $ 624
CC: $371,953

02/12/03 SICP 1150 psi. Thaw out flw back manifold. Open chk to 14/64" to flw. Flwd all gas until press dropped to 50 psi. SI f/PBU. Built press to 500 psi. Open back up on 14/64" chk. Well started to flw wtr almost instantly. Open to 32/64" & flwd 48 BW/4 hrs. SIW. Drain flw lines to tst tnk.
DC: $ 35,497
CC: $407,450

02/13/03 SICP 650 psi. Open well to tst tnk on 32/64" chk. Prod 44 BW, no press reading on gauge. PU coils for separator & install. Hook up flw line & heat trace lines. WO parts. SIW.
DC: $ 1,906
CC: $409,356

02/14/03 Open well to tst tnk, bleed off press to 0. RU WL. PU CIBP & TIH. Set @ 11,620'. TOH w/setting tool. PU Dmp bailer. Fill w/1 sx cmt. TIH w/bailer & dmp cmt on top of plug (1 sx = 10' of fill, PBTD s/b 11,610'). TOH & LD bailer. Pull 4-1/16" 10K frac vlv off WH & replace w/new. PT csg & vlv to 8500 psi/30 min – held gd. RD pmp truck. TIH w/perf guns & TIH. **Perforate fr/11,522-25' & 11,476-79',** 16 holes (8 holes in ea zn). RD WL. SICP after perf'g both zns 450 psi. Hot oil trucks on loc heating wtr for frac. SIW.
DC: $ 15,357
CC: $424,713

02/15/03 SICP 1428 psi. PT lines to 8500 psi . Pmpd 6004 gals 10# meth.
Pre-Pad Pmpd 6,008 gals. Did step dwn pmp-in tst (determined that only 8.6 perfs were open). ISIP 4340 psi, FG 0.82.
Pad Pmpd 8,192 gals. First 15 gals had .5 ppg sd.
Pmpd 10,005 gals fluid w/sd ramped fr/ 1-3 ppg.
Pmpd 8,008 gals fluid w/sd ramped fr/ 3-4 ppg .
Pmpd 6,002 gals fluid w/sd rampd fr/ 4-4.4 ppg.
Pmpd 3,668 gals fluid w/sd ramped fr/ 4.4-4.5 ppg.
Flushed job w/7,107 gals fluid.
ISIP 5090 psi, FG 0.89 Total pmpd 54,994 gals (1309 bbls).
Flw back frac. TBLFTR 1480.

Time	Choke	PSI	BPH	
13:00	8/64"	3800	34	
14:00	8/64"	3600	34	
15:00	8/64"	3500	22	
16:00	8/64"	3300	39	
17:00	8/64"	3000	25	
18:00	8/64"	2900	37	lt sd
19:00	8/64"	2600	29	lt sd
20:00	8/64"	2400	29	lt sd
21:00	8/64"	2100	28	lt sd, slight gas
22:00	8/64"	1950	37	lt sd, slight gas
23:00	8/64"	1925	25	lt sd, slight gas
00:00	8/64"	1800	33	wtr w/slight gas
01:00	8/64"	1700	19	wtr & slight gas

02/15/03 (cont.)

Time	Choke	PSI	BPH	
02:00	8/64"	1700	5	wtr & slight gas
03:00	8/64"	1650	24	wtr & gas

	04:00	8/64"	1600	10	wtr & gas
	05:00	8/64"	1500	24	wtr & gas
	06:00	8/64"	1400	19	wtr & gas

473 BLWR. BLWLTR 1007.
DC: $93,596
CC: $518,309

02/16/03 Flw back frac

Time	Choke	PSI	BPH	
07:00	10/64"	1350	10	wtr w/gas
08:00	10/64"	1150	13	wtr w/gas
09:00	10/64"	900	17	wtr w/gas
10:00	10/64"	1000	16	wtr w/gas
11:00	10/64"	900	22	wtr w/gas
12:00	10/64"	850	15	wtr w/gas
13:00	10/64"	800	14	wtr w/gas
14:00	10/64"	650	15	wtr w/gas
15:00	14/64"	500	19	wtr w/gas
16:00	14/64"	390	21	wtr w/gas
17:00	14/64"	410	5	wtr w/gas
18:00	14/64"	410	6	wtr w/gas
19:00	14/64"	510	19	wtr w/gas
20:00	14/64"	310	4	wtr w/gas
21:00	14/64"	280	21	wtr w/gas
22:00	14/64"	220	5	wtr w/gas
23:00	14/64"	230	17	wtr w/gas
00:00	14/64"	220	17	wtr w/gas
01:00	14/64"	210	5	wtr w/gas
02:00	14/64"	190	5	wtr w/gas
03:00	14/64"	190	13	wtr w/gas
04:00	14/64"	200	8	wtr w/gas
05:00	14/64"	200	9	wtr w/gas
06:00	14/64"	190	9	wtr w/gas

305 BLWR. 702 BLWLTR.
DC: $11,670
CC: $529,979

02/17/03 Flw back frac:

Time	Choke	PSI	BPH	
07:00	10/64"	190	14	wtr w/gas
08:00	10/64"	180	5	wtr w/gas
09:00	10/64"	180	9	wtr w/gas
10:00	10/64"	150	10	wtr w/gas
11:00	10/64"	120	5	wtr/10 secs; 50/50 wtr/gas

10 secs.

12:00	32/64"	50	14	wtr w/gas
13:00	32/64"	20	19	wtr w/gas
14:00	32/64"	10	15	wtr
15:00	32/64"	25	19	wtr
16:00	32/64"	110	39	wtr
17:00	32/64"	85	14	wtr
18:00	32/64"	80	34	wtr
19:00	32/64"	30	9	wtr w/slight gas
20:00	32/64"	10	10	wtr

21:00	0/64"	0	0	well not flwg

Dropped 2 soap sticks. SI f/PBU. Blt press to 610 in 6 hrs. Open to tst tnk. Flwd gas f/20 min & press dropped to 0 psi. Open to tst tnk/3 hrs more – 0 psi & no fluid. SI f/PBU. 216 BLWR. 468 BLWLTR.
DC: $ 2,982
CC: $532,961

02/18/03 Built press to 500 psi. Dropped 2 soap sticks & open to tst tnk on 14/64" chk. Press dropped to 0 psi/20 min. Open to pit on full 2". No flw, gas fumes only. Shut vlvs & opened needle vlv. Gas blw coming out of needle vlv. Watched well/30 min – no change in blw. SIW. Check press in the AM & attempt to flw.
DC: $ 2,972
CC: $535,933

02/19/03 SICP 500 psi. Open to tst tnk on 32/64" chk. Flwd all gas/20 min until press dropped to 0 psi. Open to pit on full 2" line, gas vapors only. SI & rls flw back crew. RU WL. TIH & tag TD @ 11,532', btm perf @ 11,525'. TOH. Looked like gas cut fluid fr/ 600-6,800' & no fluid up to surf. Opened well to tst tnk to blw off gas press in 32/64" chk. Gas flwd/5 min & wtr flwd thereafter @ 200 psi. Flwd 30 BW before press dropped to 0 psi & gas blw. RD WL. SIW.
DC: $ 4,051
CC: $539,984

02/20/03 SICP 1000 psi. Open to tst tnk on 32/64" chk, 0 psi/30 min & slight gas blw. RU WL. TIH w/BHP bomb. SI. Open to tst tnk on 32/64" chk, flwd gas/5 min & then started flwg gas cut fluid. Reduce chk to 18/64".

Time	Choke	PSI	BPH	
13:00	32/64"	600		Open to tst tnk
14:00	18/64"	170	26	
15:00	18/64"	215	5	
18:00	16/64"	110		
19:00	16/64"	150	13	
20:00	16/64"	200	8	
21:00	16/64"	180	9	
22:00	16/64"	100	8	
23:00	16/64"	40	5	
00:00	16/64"	85	4	
01:00	16/64"	140	4	
02:00	16/64"	115	5	
03:00	16/64"	100	8	
04:00	16/64"	110	5	
05:00	16/64"	30	0	

105 BLWR, 358 BLWLTR.
DC: $ 4,073
CC: $544,057

02/21/03 Flw back:

Time	Choke	PSI	BPH
06:00	16/64"	30	
07:00	16/64"	25	2
08:00	16/64"	100	2
09:00	16/64"	70	2

10:00	16/64"	30	2
11:00	16/64"	30	0
12:00	16/64"	30	1
13:00	16/64"	12	0
14:00	16/64"	10	0
18:00	16/64"	2	0

SI f/PBU. Est gas ARO 100 MCFD. 9 BLWR, 347 BLWLTR.
DC: $ 3,943
CC: $548,000

02/22/03 SICP 460 psi. Open well to tst tnk on 32/64" chk. Press dropped to 0 psi/10 min. Open to pit on 2" line, no flw. SI f/PBU. Open to pit on 2" line, press dropped to 0 psi immediately. Drop 3 soap sticks 10 mins apart. Well started to flw sml stream of wtr to pit. Shut to pit, open to tst tnk:

Time	Choke	PSI	BPH	
12:00	open	0		
13:00	18/64"	20	13	wtr
14:00	20/64"	40	13	wtr
15:00	32/64"	90	19	wtr

02/22/03 (cont...)

Time	Choke	PSI	BPH	
16:00	20/64"	110	9	wtr w/slight gas
17:00	20/64"	89	13	wtr
22:00	20/64"	0	67	
00:00		0		SI f/PBU.

134 BLWR. 213 BLWLTR.
DC: $ 6,665
CC: $554,665

02/23/03 SICP 700 psi. Open well to tst tnk on 20/64" chk. Flw off gas & well press to 0 psi/20 min. Open to tst tnk w/no flw/3 hrs. Drop 2 soap sticks & SI f/PBU.
DC: $ 2,885
CC: $557,550

02/24/03 SICP 890 psi. Open to tst tnk, flwd all gas/20 min until press dropped to 0 psi. Dropped 2 soap sticks ½ hr apart. No flw. SI f/PBU. Open to tst tnk when press reached 40 psi & dropped 2 more soap sticks ½ hr apart, no flw. SI. TP @ 90 psi & opened to pit on full 2" line, gas fumes coming out of line. Well started to flw wtr. SI to pit & turn to tst tnk on 24/64" chk. 108 BLWR before press dropped to 0 psi & gas vapor coming out of flw line. SI f/PBU. 105 BLWLTR.
DC: $ 2,005
CC: $559,555

02/25/03 WSI. Open to pit. Press dropped to 0 psi in a few min, gas blw only. Dropped 2 soap sticks. SI f/PBU.
DC: $ 2,005
CC: $561,560

02/26/03 WSI. SICP 780 PSI. Blw press to 0 psi/15 min on 32/64" chk. SI. Filling frac tnks w/wtr.
DC: $ 2,105
CC: $563,665

02/27/03 WSI. SICP 800 psi. RU WL. Bleed press to 0 psi. PU CIBP & TIH. Set plug @ 11,460'. TOH w/setting tool. PU dmp bailer & TIH w/1 sk cmt. Dmp cmt on top of plug. PBTD s/b 11,450'. TOH w/bailer. PU perf guns & TIH. **Perforate Mesaverde fr/ 11,370'-74' (8 holes); 11,296'-300' (8 holes) & 11,230'-34' (8 holes)**, 2 JSPF, 24 total holes. All guns were 2.5" expend, 120° ph, 11 gr mill charges. SI.

02/28/03 RU frac equip. Frac MV3:

Stage 1 Pmp 9474 gals 10# meth wtr. Perform step dwn tst. Determined That 16 of 24 perfs were open. ISIP 4385 psi. FG = .82.

Stage 2 Pmp 2010 gals of pre-pad

Stage 3 Pmp 20573 gals of pad

Stage 4 Pmp 1-3# sd stage using 28012 gals fluid & 56024# 20/40 sd

Stage 5 Pmp 3-4# sd stage using 20004 gals fluid & 70014# 20/40 sd

Stage 6 Pmp 4-5# sd stage using 20011 gals fluid & 90049.5# 20/40 sd

Stage 7 Pmp 5# sd stage using 9723 gals fluid & 48615# 20/40 PR-6000 sd

Stage 8 Flushed w/7026 gals 10# meth wtr.

(Total pmpd 116,833 gals fluid, 216087.5# 20/40 Ottowa sd & 48615# PR-6000 sd). ISIP 4850 psi. FG .87. 5 min-4577 psi-10 min 4488 psi-15 min 4418 psi. AIR 25.2 BPM, MIR 25.7 BPM, AIP 4800 psi, MIP 5884 psi. RD frac. RU WL. PU 8K frac plug & RIH. Set @ 10,940'. **Perf MV fr/ 10,913-18' (9 holes) & 10,805-10' (9 holes)** 2 JSPF, using 2.5" OD expend gun, 11 gr mill, 120° ph. RD WL. RU frac. Frac MV4:

Stage 1 Pmp 3011 gals 10# meth wtr. Perform step dwn tst. Determined That 16 of 18 holes were open. ISIP 4420 psi. FG = .85.

Stage 2 Pmp 2012 gals of pre-pad

Stage 3 Pmp 7002 gals of pad

Stage 4 Pmp 1-3# sd stage using 15502 gals fluid & 31004# 20/40 sd

Stage 5 Pmp 3-4# sd stage using 10009 gals fluid & 35031.5# 20/40 sd

Stage 6 Pmp 4-5# sd stage using 12009 gals fluid & 54040.5# 20/40 sd

Stage 7 Pmp 5# sd stage using 4039 gals fluid & 20195# 20/40 sd

Stage 8 Flush w/6713 gals 3% KCl wtr.

Cont... **(Total pmpd 60297 gals fluid & 140271# 20/40 Ottowa sd)**. ISIP 4450 psi. FG = .85. 5 min 4267 psi-10 min 4170 psi-15 min 4080 psi. AIR 22.5 BPM, MIR 22.7 BPM, AIP 5500 psi, MIP 6120 psi. RD Flw back fracs

Time	Choke	PSI	BPH	
17:00	10/64"	4000		Open to tst tnk
18:00	10/64"	3800	38	
19:00	10/64"	3700	53	
20:00	10/64"	3700	43	
20:15	10/64"	3700	16	turn to pit lt sd

	21:00	10/64"	3700	47	med sd
	22:00	10/64"	3700	53	hvy sd
	23:00	10/64"	3675	53	hvy sd
	00:00	10/64"	3650	54	lt sd
	01:00	10/64"	3600	54	vy little sd
	02:00	10/64"	3550	53	no sd, turn to tst tnk
	03:00	10/64"	3000	57	
	04:00	10/64"	3450	51	
	05:00	10/64"	3400	52	

TBLWTR 4366. 624 BLWR. 3742 BLWLTR.
DC: $184,548
CC: $759,505

03/01/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	10/64"	3325	47	
07:00	10/64"	3300	43	
08:00	10/64"	3250	43	
09:00	10/64"	3200	52	
10:00	10/64"	3100	38	gas brkg out of fluid
11:00	10/64"	3100	39	
12:00	10/64"	3000	43	
13:00	10/64"	3000	43	
14:00	10/64"	2900	49	
15:00	10/64"	2900	24	
16:00	10/64"	2800	38	
17:00	10/64"	2800	39	
18:00	10/64"	2700	38	little more gas in fluid
19:00	10/64"	2650	50	
20:00	10/64"	2600	39	
21:00	10/64"	2525	31	
22:00	10/64"	2500	29	
23:00	10/64"	2500	34	
00:00	10/64"	2450	33	
01:00	10/64"	2500	34	
02:00	10/64"	2500	25	gas incr'g in the fluid
03:00	10/64"	2550	25	
04:00	10/64"	2600	25	
05:00	10/64"	2625	22	

883 BLWR. 2859 BLWLTGR.
DC: $ 3,906
CC: $763,411

03/02/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	10/64"	2625	17	
07:00	10/64"	2625	17	
08:00	10/64"	2650	25	
09:00	10/64"	2650	17	Chl 18,200, pH 6.5

	10:00	12/64"	2700	18	
	11:00	12/64"	2700	36	
	12:00	12/64"	2750	18	
	13:00	12/64"	2800	27	
Cont.	**Time**	**Choke**	**PSI**	**BPH**	
	14:00	12/64"	2800	26	
	15:00	12/64"	2800	37	
	16:00	12/64"	2800	24	
	17:00	12/64"	2800	25	
	18:00	12/64"	2800	17	Chl 18,600, pH 6.5
	19:00	12/64"	2750	21	
	20:00	12/64"	2750	21	
	21:00	12/64"	2725	17	
	22:00	12/64"	2700	17	
	23:00	12/64"	2650	13	
	00:00	12/64"	2600	17	
	01:00	12/64"	2550	17	
	02:00	12/64"	2550	16	gas incr'g in the fluid
	03:00	12/64"	2500	13	
	04:00	12/64"	2450	12	
	05:00	12/64"	2400	14	

Est gas ARO 500-750 MCFD @ this time. 482 BLWR. 2377 BLWLTR.
DC: $ 3,906
CC: $767,317

03/03/03 Flw back frac:

Time	**Choke**	**PSI**	**BPH**	
06:00	12/64"	2350	9	
07:00	12/64"	2275	8	
08:00	12/64"	2300	14	
09:00	12/64"	2310	13	Chl 19,400, pH 6.5
10:00	12/64"	2250	13	
11:00	12/64"	2150	5	change chk to 14/64"
12:00	14/64"	2100	8	
13:00	14/64"	2000	17	
14:00	14/64"	1900	11	
15:00	14/64"	1900	15	
16:00	14/64"	1825	13	
17:00	14/64"	1750	11	Chl 19,400, pH 6.5
18:00	14/64"	1750	11	
19:00	14/64"	1675	9	
20:00	14/64"	1650	9	
21:00	14/64"	1610	11	
22:00	14/64"	1550	7	
23:00	14/64"	1510	10	
00:00	14/64"	1450	7	
01:00	14/64"	1400	7	
02:00	14/64"	1350	7	
03:00	14/64"	1300	8	

04:00	14/64"	1300	7
05:00	14/64"	1250	7

Est gas ARO 500-750 MCFD @ this time. 237 BLWR. 2140 BLWLTR.
DC: $ 3,906
CC: $771,223

03/04/03 Flw back frac on 14/64" chk. Turn to sales on 12/64" chk, 12 MCF (spot rate 358 MCFD) & 10 BW/3 hrs, CP 1350 psi, LP 106 psi. 25 BLWR. 2115 BLWLTR.
DC: $ 2,746
CC: $773,969

03/05/03 Flw to sales. 58 BLWR. 2057 BLWLTR.
DC: $ 35,183
CC: $809,152

03/06/03 Flw to sales on 12/64" chk, 227 MCF, 29 BW, FCP 2250 psi. MI RU WL. SIW. RIH w/GR & JB to 10,750'. POH. PU 8K frac plug & perf guns & TIH. Set plug @ 10,735'. **Perf MV fr/ 10,707'-10', 10,689'-92' & 10,652'-55'**, 3 spf w/2½" OD exp 0.32" EHD, 120° ph mill charges. All shots fires. RDWL. Heat frac wtr & prep for Stage 5 frac.
DC: $ 2,275
CC: $811,427

03/07/03 Frac ~~stage~~stg 5:
Stage 1 Pmp 10172 gals 10# meth wtr. BD @ 7400 psi @ 26 BPM.
ISIP 4130 psi. Found 22 of 29 holes open.
Pre-Pad Pmp ~~44354~~4438 gals 20# Delta 200 @ 27 BPM AIR, AIP 5372 psi.
Pad Pmp 16012 gals 25# Delta 200 @ 27.7 BPM AIR, AIP 5695 psi.
Pmp 1-3# sd stg w/38000 gals 25# Delta 200 @ 27.7 BPM AIR,
& 58750# Ottowa 20/40 sd @ 5098 psi AIP.
Pmp 3-4# sd stg w/32004 gals 25# Delta 200 @ 32.1 BPM AIR
& 164649# Ottowa 20/40 sd @ 4830 psi AIP.
Pmp 4-5# sd stg w/36015 gals 25# Delta 200 @ 32.7 BPM AIR
& 322212# Ottowa 20/40 sd @ 4531 psi AIP.
Pmpd 5# sd stg w/9596 gals 25# Delta 200 @ 35 BPM AIR &
369371# Ottowa 20/40 sd @ 4653 psi AIP.
Flush w/6646 gals 10# meth wtr.
ISIP 4450 psi, 5 min 4238 psi-10 min 4102 psi-15 min 3962 psi. **Pmpd total of ~~152405~~152883 gals wtr & 400000# Ottowa 20/40 sd.** RU WL. PU HES 8K frac plug & 4 3', 2.5" OD 2 spf, 0.32" EHD, 120° ph mill guns & RIH. Set plug @ 10,030'. **Perf MV fr/ 10,002-05', 9977-80', 9947-50' & 9805-08', 24 tot holes.** RDWL. Frac Stg 6:

Stage 1 Pmp 7981 gals 10# meth wtr. BD @ 5028 psi, 21.7 BPM AIR,
5904 psi AIP. ISIP 3760 psi. Found 15 of 24 perfs open.
Pre-Pad Pmp 4095 gals 20# Delta 200 @ 25.6 BPM AIR, 5995 psi AIP.
Pad Pmp 12004 gals 25# Delta 200 @ 32.6 BPM AIR, 6295 psi AIP.
Pmp 1-3# sd stg w/24014 gals 25# Delta 200 & 32491# Ottowa
20/40 sd @ 34.7 BPM AIR, 5523 psi AIP.
Pmp 3-4# sd stg w/18005 gals 25# Delta 200 & 91561# Ottowa
20/40 sd @ 34.8 BPM AIR, 4819 psi AIP.
Pmp 4-4.5# sd stg w/12015 gals 25# Delta 200 & 140964# Ottowa
20/40 sd @ 34.9 BPM AIR, 4524 psi AIP.
Pmp 4.5-5# sd stg w/10323 gals 25# Delta 200 & 188868# Ottowa
20/40 sd @ 34.9 BPM AIR, 4335 psi AIP.
Flush w/6100 gals 10# meth wtr.
ISIP 4050 psi, 5 min 3910 psi-10 min 3850 psi-15 min 3795 psi. **Pmpd total of ~~943379~~4537 gals fluid & 203600# 20/40 Ottowa sd.** Flw back frac. 2028 BLWTR fr/ stg 3-4, 5879 BLWTR fr/ stg 5-6. 7907 TBLWLTR.

Time	Choke	PSI	BPH	
15:30	10/64"	3610	0	Start flw back
15:45	10/64"	3410		
16:00	10/64"	3260	27	
17:00	10/64"	3210	48	
18:00	10/64"	3100	52	
18:15	10/64"	3100	15	turn to pit
19:00	10/64"	3250	38	some sd
20:00	10/64"	3250	53	hvy sd
21:00	10/64"	3240	52	hvy sd
22:00	10/64"	3200	53	sd
23:00	10/64"	3200	53	sd
24:00	10/64"	3160	53	sd
01:00	10/64"	3150	53	sd
02:00	10/64"	3120	53	sd
03:00	10/64"	3110	53	sd
04:00	10/64"	3100	53	sd
05:00	10/64"	3050	53	sd

707 BLWR. 7200 BLWLTR.
DC: $234,874
CC: $1,046,302

03/08/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	10/64"	3040	43	
07:00	10/64"	3010	53	
08:00	10/64"	2980	48	sd, turn to pit
09:00	10/64"	2950	50	sd
10:00	10/64"	2950	50	sd

	11:00	10/64"	2925	50	sd, turn to flw back tnk
	12:00	10/64"	2900	43	
	13:00	10/64"	2890	43	chng chk
	14:00	12/64"	2840	63	
	15:00	12/64"	2790	54	
	16:00	12/64"	2750	55	
	17:00	12/64"	2700	54	
	18:00	12/64"	2650	59	
	19:00	12/64"	2600	61	
	20:00	12/64"	2550	61	
	21:00	12/64"	2500	53	
	22:00	12/64"	2450	58	
	23:00	12/64"	2400	62	
	24:00	12/64"	2350	53	
	01:00	12/64"	2300	55	
	02:00	12/64"	2250	54	
	03:00	12/64"	2200	51	
	04:00	12/64"	2150	51	
	05:00	12/64"	2075	53	

1277 BLWR. 5923 BLWLTR.
DC: $ 24,110
CC: $1,070,412

03/09/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	12/64"	2010	54	
07:00	12/64"	1950	49	
08:00	12/64"	1910	50	Chl 20,200, pH 6.5
09:00	12/64"	1925	46	
10:00	12/64"	1960	51	
11:00	12/64"	1980	34	Start gas
12:00	12/64"	2000	47	
13:00	12/64"	2000	29	
14:00	12/64"	2010	38	
15:00	12/64"	2010	40	
16:00	12/64"	1990	26	
17:00	12/64"	1975	31	
18:00	12/64"	2000	34	Chl 20,600, pH 6.5
19:00	12/64"	2050	22	
20:00	12/64"	2100	34	Est gas ARO 150 MCFD
21:00	12/64"	2150	33	
22:00	12/64"	2200	24	
23:00	12/64"	2150	24	
24:00	12/64"	2125	29	
01:00	12/64"	2150	24	Est gas ARO 200 MCFD
02:00	12/64"	2200	24	
03:00	12/64"	2250	24	
04:00	12/64"	2300	29	
05:00	12/64"	2325	24	

820 BLWR. 5103 BLWLTR. Est gas ARO 250 MCFD.
DC: $ 3,835
CC: $1,074,247

03/10/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	12/64"	2360	19	
07:00	12/64"	2400	25	
08:00	12/64"	2415	13	
09:00	12/64"	2400	17	Chl 21,800, pH 6.5
10:00	12/64"	2425	21	
11:00	12/64"	2425	21	
12:00	12/64"	2410	21	Est gas ARO 300 MCFD
13:00	12/64"	2400	21	
14:00	12/64"	2400	17	
15:00	12/64"	2390	21	Chng chk
16:00	14/64"	2350	17	
17:00	14/64"	2290	25	
18:00	14/64"	2200	18	Chl 22,200, ph 7.0
19:00	14/64"	2210	27	Est gas ARO 400 MCFD
20:00	14/64"	2240	27	
21:00	14/64"	2220	31	
22:00	14/64"	2210	21	
23:00	14/64"	2200	17	
24:00	14/64"	2175	16	
01:00	14/64"	2150	17	
02:00	14/64"	2100	26	
03:00	14/64"	2025	17	
04:00	14/64"	1975	22	
05:00	14/64"	1925	17	

494 BLWR. 4609 BLWLTR.
DC: $ 2,977
CC: $1,077,223

03/11/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	14/64"		13	
07:00	14/64"		21	Chl 22,400, pH 6.5
08:00	14/64"		23	
09:00	14/64"		14	
10:00	14/64"		15	
11:00	14/64"		19	
12:00	14/64"		9	
13:00	14/64"		13	
14:00	14/64"		17	
15:00	14/64"		14	
16:00	14/64"		15	

17:00	14/64"	17	
18:00	14/64"	13	
19:00	14/64"	16	Chl 23,400, pH 6.5
20:00	14/64"	13	Est gas ARO 400 MCFD
21:00	14/64"	17	
22:00	14/64"	12	
23:00	14/64"	13	
24:00	14/64"	12	
01:00	14/64"	14	
02:00	14/64"	13	
03:00	14/64"	14	
04:00	14/64"	13	
05:00	14/64"	9	

349 BLWR. 4259 BLWLTR.
DC: $ 3,523
CC: $1,080,746

03/12/03 Flw back frac:

Time	Choke	PSI	BPH	
06:00	14/64"		13	
07:00	14/64"		22	Chl 24,000, pH 6.5
08:00	14/64"		30	
09:00	14/64"		39	Turn to sales on 12/64" chk.

39 BLWR. 4220 BLWLTR. Flw to sales on 12/64" chk @ 1600 psi ARO ±3 BPH.
DC: $ 5,151
CC: $1,085,897

03/13/03 Flw to sales on 12/64" chk, 239 MCFD/23 hrs. FCP 1750 psi. Chk plugged. Spot gas ARO 750 MCFD. 51 BLWR. 4171 BLWLTR.
DC: $ 1,795
CC: $1,087,692

03/14/03 Flw to sales on 12/64" chk, 569 MCFD/24 hrs, FCP 1450 psi. Spot gas ARO 648 MCFD. 254 BLWR. 3916 BLWLTR.
DC: $ 2,186
CC: $1,089,878

03/15/03 Flw to sales on 12/64" chk, 570 MCFD, FCP 1340 psi. 263 BLWR. 3653 BLWLTR.
DC: $ 4,491
CC: $1,094,369

03/16/03 Flw to sales on 12/64" chk, 536 MCFD, FCP 1450 psi. 92 BLWR. 3561 BLWLTR.
DC: $ 756
CC: $1,095,125

03/17/03 Flw to sales on 12/64" chk, 584 MCFD, FCP 1300 psi. 165 BLWR. 3396 BLWLTR.
DC: $ 181
CC: $1,095,306

03/18/03 Flw to sales on 12/64" chk, 586 MCFD, FCP 1200 psi. 134 BLWR. 3262 BLWLTR.
DC: $ 23,039
CC: $1,118,345

03/19/03 Flw to sales on 12/64" chk, 577 MCFD, FCP 1200 psi. 126 BLWR. 3136 BLWLTR.
DC: $ 365
CC: $1,118,710

03/20/03 Flw to sales on 12/64" chk, 550 MCFD, FCP 1175 psi. 81 BLWR. 3055 BLWLTR. MI rig.
DC: $ 1,726
CC: $1,120,436

03/21/03 Flw to sales on 12/64" chk, 569 MCFD, FCP 1150 psi. 101 BLWR. 2954 BLWLTR. RU WL. SIW. TIH w/3¾" OD GR to 9,800'. TOH. PU setting tool & 5K composite BP & TIH. Correlate to DNS log & set @ 9,780'. TOH w/setting tool. Install tbg hanger. ND 4-1/16 10K frac vlv. NU 7-1/16 5K BOP & tst to 5000 psi – gd. Pull check vlv & tbg hanger. Fill hole w/80 BW. MI & spot tbg.
DC: $ 14,734
CC: $1,135,170

03/22/03 Start rig. Tally & PU 2⅜" tbg & TIH. RU hydrl & rotating hd. PU pwr swivel & make ready to DO plugs. RU flw lines & manifold to pit & tnk. WSI.
DC: $ 5,669
CC: $1,140,839

03/23/03 PU jts tbg. Tag plug @ 9,780'. Start pmp & fill tbg. DO 4 plugs. TOH & LD 8 jts tbg. (Note: Pmpd & recvrd 260 BF to pit during clean-out.) TOH to string float, remove string float. TIH & **land tbg @ 11,217.9'**. RD. ND rotating hd & hydrl. ND BOP. Drop ball to pmp off bit. NU tree & tst to 10000 psi – gd tst. RU rig pmp. Pmp 40 bbls, press incr'd fr/ 0 psi-600 psi & then dropped to 0. Pmpd 3 more bbls to ensure bit was pmpd off. Open tbg to rig tnk, no flw. RD & drain pmp lines. Tbg has a slight blw @ this time. Make up flw line to separator & chk tbg FOE flw, slight blw on tbg. SIW f/PBU.
DC: $ 43,031
CC: $1,183,870

03/24/03 SI f/PBU. SITP 1800 psi. SICP 2500 psi. Bld flw line fr/ well to tst tnk & open to tnk:

Time	Choke	CP	TP	BPH	
09:40	14/64"	2500	1800	0	
10:00	20/64"	2490	1300	0	
11:00	20/64"	2500	200	2	
12:00	20/64"	2650	230	4	
13:00	20/64"	2700	375	24	Chng to 32/64 get fluid moving
14:00	18/64"	2650	1190	29	
15:00	18/64"	2625	1260	21	
16:00	18/64"	2615	1200	21	
17:00	12/64"	2750	1300	11	Turn to prodn equip; too much wtr for the amt of gas.
18:00	18/64"	2500	1475	24	
19:00	18/64"	2400	1350	18	
20:00	18/64"	2300	1275	17	
21:00	18/64"	2200	1200	12	
22:00	18/64"	2150	1160	18	
23:00	18/64"	2100	1140	13	
00:00	18/64"	2070	1100	13	
01:00	18/64"	2020	1080	9	
02:00	18/64"	2000	1040	13	
03:00	18/64"	1975	1000	13	
04:00	18/64"	1950	1000	13	
05:00	18/64"	1900	990	13	

285 BLWR. 2669 BLWLTR.
DC: $ 2,169
CC: $1,186,039

03/25/03 Flw back to tst tnk. Turn to sales line & prod'n equip/9 hrs. Turn back to tst tnk due to comprsr dwn & HLP. Comprsr BOL, return to sales line. RD & rls pulling unit. Load out BOP, accumulator, hydrl & pwr swivel. Flwg to sales on 14/64" chk, 30 MCF/2 hrs, FTP 1100 psi. Spot gas sales reading 585 MCFD. 131 BLWR. 2538 BLWLTR.
DC: $ 6,529
CC: $1,192,568

03/26/03 Flw to sales on 14/64" chk, 479 MCF/20 hrs, FTP 1000 psi. Comprsr dwn for repairs. 39 BLWR. 2499 BLWLTR. CC:

03/27/03 Flw to sales on 14/64" chk, 553 MCFD, FTP 1000 psi. 173 BLWR. 2326 BLWLTR.

03/28/03 Flw to sales on 14/64" chk, 512 MCFD, FTP 1000 psi. 170 BLWR. 2156 BLWLTR.

03/29/03 Flw to sales on 14/64" chk, 593 MCFD, FTP 1000 psi. 183 BLWR. 1973 BLWLTR.

03/30/03 Flw to sales on 14/64" chk, 609 MCFD, FTP 950 psi. 130 BLWR. 1843 BLWLTR.

03/31/03 Flw to sales on 14/64" chk, 512 MCFD, FTP 950 psi. 138 BLWR. 1705 BLWLTR.

04/01/03 Flw to sales on 14/64" chk, 601 MCFD, FTP 950 psi. 134 BLWR. 1571 BLWLTR. **Final rpt.**

05/01/03 MI DB cat to loc. Begin to back fill drlg pit w/rock & dirt fr/ pit stock pile.
DC: $ 2,903
CC: $1,201,372

Fix Hole In TBG

4/25/08 Cost update (PME) DC: $ 3323 CC :1,204,695

8-4-08 1000 ftp 1000 cp. M.I.S.U. & R.U. Pump 40 bbls. down csg. & 30 bbls. down tbg. N.D. W.H. N.U. BOP'S. P.O.O.H. W/ 60 jts. tbg. Well kicked. Pump 30 down tbg. P.O.O.H. w/ 22 jts. tbg. Well kicked. Pump 20 down tbg. P.O.O.H. w/ 10 jts. tbg. Well kicked. Pump 13 bbls. down tbg. P.O.O.H. w/ 18 jts. tbg. Well kicked. (110 JTS. TOTAL)S.D.F.N. (RICK)
DC $9895 CC $1,214,590

8-5-08 300 sitp 300 sicp. Pump 40 bbls. down tbg. & 40 bbls. down csg. P.O.O.H. w/ 54 jts. tbg. **FOUND HOLE IN MIDDLE OF JT. # 164. (APPROX. 5300')** P.O.O.H. W/ 202 JTS. TBG. Pump 30 bbls. down csg. & 10 bbls. down tbg. P.O.O.H. w/ 95 jts. tbg., x-nipple, 1-jt. tbg., x-nipple, W.L. re-entry guide. R.U. hydro-tester. Pump 50 bbls. down csg. R.I.H. W/ 79 jts. tbg. (testing to 7500#'s) Found 0 bad jts. Leave csg. to sales & S.D.F.N. (RICK) DC $8438 CC $1,223,028

Form 3160- 5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004- 0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other Instructions on reverse side.*

5. Lease Serial No. UTU-78433
6. If Indian, Allottee, or Tribe Name
7. If Unit or CA. Agreement Name and/or No.
8. Well Name and No. See list below
9. API Well No.
10. Field and Pool, or Exploratory Area
11. County or Parish, State

1. Type of Well
[ ] Oil Well [X] Gas Well [ ] Other

2. Name of Operator
Gasco Production Company

3a. Address
8 Inverness Drive East Ste 100 Englewood, Co 80112

3b. Phone No. *(include area code)*
303-483-0044

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
[X] Notice of Intent	[ ] Acidize	[ ] Deepen	[ ] Production (Start/ Resume)	[ ] Water Shut-off
	[ ] Altering Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[ ] Subsequent Report	[ ] Casing Repair	[ ] New Construction	[ ] Recomplete	[ ] Other
	[ ] Change Plans	[ ] Plug and abandon	[ ] Temporarily Abandon	
[ ] Final Abandonment Notice	[ ] Convert to Injection	[ ] Plug back	[X] Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

This is to inform you that effective immediately we will be disposing of produced water from wells within this lease as follows:

All produced water from this well will be trucked off the location and disposed of at the Desert Spring State Evaporation Facility NW 1/4 of Section 36-T9S-R18E Uintah County, Utah. Which is operated by Gasco Production Company. A copy of the approved permit for this facility is attached.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

The wells within this lease are:

Federal 11-21-9-19 NW NW of Sec 21-T9S-R19E Uintah Cnty, Utah 043-047-34608
Federal 11-22-9-19 NW NW of Sec 22-T9S-R19E Uintah Cnty, Utah 043-047-35404
★ *Federal 23-21-9-19 NE SW of Sec 21-T9S-R19E Uintah Cnty, Utah 043-047-34199*
Lytham Fed 22-22-9-19 SE NW of Sec 22-T9S-R19E Uintah Cnty, Utah 043-047-34607
Federal 31-21-9-19 NW NE of Sec 21-T9S-R19E Uintah Cnty, Utah 043-047-35606

RECEIVED
OCT 2 4 2006
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.

Name *(Printed Typed)* Beverly Walker — Title Engineering Tech

Signature — Date October 18, 2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by — Title — Date

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. — Office

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitiousor fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

API Well No: 43047341990000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-78433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: FED 23-21-9-19

2. NAME OF OPERATOR: GASCO PRODUCTION COMPANY

9. API NUMBER: 43047341990000

3. ADDRESS OF OPERATOR: 8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112

PHONE NUMBER: 303 483-0044 Ext

9. FIELD and POOL or WILDCAT: PARIETTE BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2139 FSL 1991 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 21 Township: 09.0S Range: 19.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 1/7/2011	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	✓ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Gasco would like to dispose of water at Integrated Water management, LLC state approved commercial disposal facility located in Section 30, 2 south Range 4 west in North Blue Bench UT. This facility would be used in addition to the currently approved disposal facilities that Gasco uses to dispose of water from this well.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

01/05/2011

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Roger Knight	303 996-1803	EHS Supervisor
SIGNATURE N/A		**DATE** 12/30/2010

RECEIVED December 30, 2010

Division of Oil, Gas and Mining
Operator Change/Name Change Worksheet-for State use only

Effective Date: 4/16/2015

FORMER OPERATOR:	NEW OPERATOR:
Gasco Prodcution Company N2575 7979 E. Tufts Avenue, Suite 11500 Denver, CO 80237 303-996-1805	Badlands Production Company N4265 7979 E. Tufts Avenue, Suite 11500 Denver, CO 80237 303-996-1805
CA Number(s):	Unit(s):Gate Canyon, Wilkin Ridge Deep, RBU-EOR-GRRV

WELL INFORMATION:

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

OPERATOR CHANGES DOCUMENTATION:

1. Sundry or legal documentation was received from the **FORMER** operator on: 6/2/2015
2. Sundry or legal documentation was received from the **NEW** operator on: 6/2/2015
3. New operator Division of Corporations Business Number: 1454161-0143

REVIEW:

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: 6/2/2015
2. Receipt of Acceptance of Drilling Procedures for APD on: N/A
3. Reports current for Production/Disposition & Sundries: 6/3/2015
4. OPS/SI/TA well(s) reviewed for full cost bonding: 1/20/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: N/A
6. Surface Facility(s) included in operator change: None
7. Inspections of PA state/fee well sites complete on (only upon operators request): N/A

NEW OPERATOR BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: SUR0027842
2. Indian well(s) covered by Bond Number: N/A
3. State/fee well(s) covered by Bond Number(s): SUR0027845
   SUR0035619 -FCB

DATA ENTRY:

1. Well(s) update in the **OGIS** on: 1/22/2016
2. Entity Number(s) updated in **OGIS** on: 1/22/2016
3. Unit(s) operator number update in **OGIS** on: 1/22/2016
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 1/22/2016
6. Surface Facilities update in **RBDMS** on: N/A

LEASE INTEREST OWNER NOTIFICATION:

1. The **NEW** operator of the Fee (Mineral) wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 1/22/2016

COMMENTS:

From: Gasco Production Company
To: Badlands Production Company
Effective Date: 4/16/2015

Well Name	Section	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
FEDERAL 23-18G-9-19	18	090S	190E	4304752496		Federal	Federal	OW	APD
FEDERAL 14-17G-9-19	17	090S	190E	4304752522		Federal	Federal	OW	APD
FEDERAL 13-18G-9-19	18	090S	190E	4304752538		Federal	Federal	OW	APD
FEDERAL 23-29G-9-19	29	090S	190E	4304752544		Federal	Federal	OW	APD
FEDERAL 24-20G-9-19	20	090S	190E	4304752545		Federal	Federal	OW	APD
FEDERAL 31-21G-9-19	21	090S	190E	4304752546		Federal	Federal	OW	APD
Federal 323-29-9-19	29	090S	190E	4304753026		Federal	Federal	GW	APD
Federal 421-29-9-19	29	090S	190E	4304753027		Federal	Federal	GW	APD
Federal 322-29-9-19	29	090S	190E	4304753029		Federal	Federal	GW	APD
Federal 431-29-9-19	29	090S	190E	4304753030		Federal	Federal	GW	APD
Federal 432-29-9-19	29	090S	190E	4304753031		Federal	Federal	GW	APD
Federal 414-29-9-19	29	090S	190E	4304753070		Federal	Federal	GW	APD
FEDERAL 412-29-9-19	29	090S	190E	4304753073		Federal	Federal	GW	APD
FEDERAL 213-29-9-19	29	090S	190E	4304753076		Federal	Federal	GW	APD
federal 321-29-9-19	29	090S	190E	4304753078		Federal	Federal	GW	APD
FEDERAL 213-29-9-19	29	090S	190E	4304753079		Federal	Federal	GW	APD
FEDERAL 321-29-9-19	29	090S	190E	4304753080		Federal	Federal	GW	APD
Federal 212-29-9-19	29	090S	190E	4304753133		Federal	Federal	GW	APD
State 321-32-9-19	32	090S	190E	4304754479		State	State	GW	APD
State 423-32-9-19	32	090S	190E	4304754480		State	State	GW	APD
State 421-32-9-19	32	090S	190E	4304754481		State	State	GW	APD
State 413-32-9-19	32	090S	190E	4304754482		State	State	GW	APD
State 323-32-9-19	32	090S	190E	4304754483		State	State	GW	APD
State 431-32-9-19	32	090S	190E	4304754529		State	State	GW	APD
Desert Spring State 224-36-9-18	36	090S	180E	4304754541		State	State	GW	APD
Desert Spring State 243-36-9-18	36	090S	180E	4304754542		State	State	GW	APD
Desert Spring State 241-36-9-18	36	090S	180E	4304754543		State	State	GW	APD
FEDERAL 332-30-9-19	30	090S	190E	4304753012	19650	Federal	Federal	GW	DRL
WILKIN RIDGE FED 43-29-10-17	29	100S	170E	4301333098	15941	Federal	Federal	GW	OPS
LAMB TRUST 11-23-9-19	23	090S	190E	4304736915	16556	Fee	Fee	GW	OPS
SHEEP WASH FED 43-26-9-18	26	090S	180E	4304738573	17201	Federal	Federal	GW	OPS
FEDERAL 13-19-9-19	19	090S	190E	4304739777	18344	Federal	Federal	GW	OPS
FEDERAL 12-17-9-19	17	090S	190E	4304739800	17202	Federal	Federal	GW	OPS
GATE CYN 31-21-11-15	21	110S	150E	4301332391	13787	State	State	GW	P
WILKIN RIDGE ST 12-32-10-17	32	100S	170E	4301332447	14033	State	State	GW	P
GATE CYN 41-20-11-15	20	110S	150E	4301332475	14417	State	State	GW	P
WILKIN RIDGE FED 34-17-10-17	17	100S	170E	4301332560	14726	Federal	Federal	GW	P
GATE CYN 41-19-11-16	19	110S	160E	4301332611	14439	Federal	Federal	GW	P
WILKIN RIDGE ST 44-32-10-17	32	100S	170E	4301332619	15649	State	State	GW	P
WILKIN RIDGE FED 12-4-11-17	4	110S	170E	4301332674	15537	Federal	Federal	GW	P
WILKIN RIDGE ST 24-32-10-17	32	100S	170E	4301332676	15242	State	State	GW	P
WILKIN RIDGE FED 23-29-10-17	29	100S	170E	4301332679	14033	Federal	Federal	GW	P
GATE CYN ST 23-16-11-15	16	110S	150E	4301332685	16082	State	State	GW	P
WILKIN RIDGE ST 34-16-10-17	16	100S	170E	4301332730	15243	State	State	GW	P
WILKIN RIDGE FED 31-29-10-17	29	100S	170E	4301332773	15370	Federal	Federal	GW	P
WILKIN RIDGE 32-08	8	110S	170E	4301332778	14802	Federal	Federal	GW	P
GATE CYN ST 23-16-11-16	16	110S	160E	4301332888	15098	State	State	GW	P
WILKIN RIDGE FED 24-20-10-17	20	100S	170E	4301333081	15714	Federal	Federal	GW	P
WILKIN RIDGE FED 32-20-10-17	20	100S	170E	4301333087	15807	Federal	Federal	GW	P
WILKIN RIDGE FED 14-4-11-17	4	110S	170E	4301333099	15920	Federal	Federal	GW	P
RYE PATCH FED 22-21	22	110S	140E	4301333437	16919	Federal	Federal	GW	P
RYE PATCH FED 24-21	24	110S	140E	4301333443	16367	Federal	Federal	GW	P
SQUAW CROSSING U 5	2	100S	180E	4304730129	16266	State	State	OW	P
RBU 5-11D	11	100S	180E	4304730409	9005	Federal	Federal	OW	P
FEDERAL 7-25A	25	090S	180E	4304730624	9030	Federal	Federal	OW	P

From: Gasco Production Company
To: Badlands Production Company
Effective Date: 4/16/2015

RBU 6-2D	2	100S	180E	4304731190	7075	State	State	OW	P
NGC 33-18J	18	090S	190E	4304731200	6155	Federal	Federal	OW	P
RBU 13-2D	2	100S	180E	4304731280	16267	State	State	OW	P
RBU 16-3D	3	100S	180E	4304731352	16268	Federal	Federal	OW	P
RBU 10-11D	11	100S	180E	4304731357	7053	Federal	Federal	OW	P
RBU 8-10D	10	100S	180E	4304731364	4955	Federal	Federal	OW	P
RBU 15-3D	3	100S	180E	4304731539	9965	Federal	Federal	OW	P
RBU 12-12D	12	100S	180E	4304731651	10688	Federal	Federal	OW	P
RBU 2-10D	10	100S	180E	4304731801	10784	Federal	Federal	OW	P
RBU 3-15D	15	100S	180E	4304733600	13213	Federal	Federal	OW	P
RBU 3-12D	12	100S	180E	4304733739	14492	Federal	Federal	OW	P
STATE 7-36A	36	090S	180E	4304733741	14244	State	State	GW	P
FEDERAL 34-29	29	090S	190E	4304733750	13174	Federal	Federal	GW	P
FEDERAL 24-7 #1	7	100S	180E	4304733983	13182	Federal	Federal	GW	P
FEDERAL 23-29 #1	29	090S	190E	4304734111	13441	Federal	Federal	GW	P
FED 24-20-9-19	20	090S	190E	4304734168	14150	Federal	Federal	GW	P
FED 44-20-9-19	20	090S	190E	4304734169	14140	Federal	Federal	GW	P
FED 23-21-9-19	21	090S	190E	4304734199	13601	Federal	Federal	GW	P
FED 32-31-9-19	31	090S	190E	4304734201	13641	Federal	Federal	GW	P
FED 42-29-9-19	29	090S	190E	4304734202	13455	Federal	Federal	GW	P
PETES WASH 23-12 #1	12	100S	170E	4304734286	13492	Federal	Federal	GW	P
STATE 4-32B	32	090S	190E	4304734314	14440	State	State	GW	P
FED 14-18-2 #1	18	100S	180E	4304734539	13491	Federal	Federal	GW	P
FED 43-24-3 #1	24	100S	170E	4304734551	13726	Federal	Federal	GW	P
LYTHAM FED 22-22-9-19	22	090S	190E	4304734607	13640	Federal	Federal	GW	P
FED 11-21-9-19	21	090S	190E	4304734608	14151	Federal	Federal	GW	P
FED 22-30-10-18	30	100S	180E	4304734924	14280	Federal	Federal	GW	P
FEDERAL 43-30-9-19	30	090S	190E	4304735343	14202	Federal	Federal	GW	P
FED 11-22-9-19	22	090S	190E	4304735404	14203	Federal	Federal	GW	P
FED 42-21-9-19	21	090S	190E	4304735405	14928	Federal	Federal	GW	P
STATE 24-16-9-19	16	090S	190E	4304735588	14418	State	Federal	GW	P
FEDERAL 31-21-9-19	21	090S	190E	4304735606	14441	Federal	Federal	GW	P
FEDERAL 12-29-9-19	29	090S	190E	4304735614	14442	Federal	Federal	GW	P
FEDERAL 24-31-9-19	31	090S	190E	4304735623	14640	Federal	Federal	GW	P
FEDERAL 41-31-9-19	31	090S	190E	4304735624	14419	Federal	Federal	GW	P
LAMB TRUST 24-22-9-19	22	090S	190E	4304735732	14496	Fee	Fee	GW	P
LAMB TRUST 24-14-9-19	14	090S	190E	4304735733	14519	Fee	Fee	GW	P
FEDERAL 11-22-10-18	22	100S	180E	4304735808	15592	Federal	Federal	GW	P
FEDERAL 21-6-10-19	6	100S	190E	4304735844	14356	Federal	Federal	GW	P
DESERT SPRING ST 41-36-9-18	36	090S	180E	4304735845	14639	State	State	GW	P
STATE 12-32-9-19	32	090S	190E	4304735995	14871	State	State	GW	P
FEDERAL 12-20-9-19	20	090S	190E	4304736093	14976	Federal	Federal	GW	P
FEDERAL 32-20-9-19	20	090S	190E	4304736094	16120	Federal	Federal	GW	P
FEDERAL 23-30-9-19	30	090S	190E	4304736095	14872	Federal	Federal	GW	P
SHEEP WASH FED 34-26-9-18	26	090S	180E	4304736113	15096	Federal	Federal	GW	P
DESERT SPRING ST 23-36-9-18	36	090S	180E	4304736219	14738	State	State	GW	P
DESERT SPRING ST 21-36-9-18	36	090S	180E	4304736220	14763	State	State	GW	P
DESERT SPRING ST 12-36-9-18	36	090S	180E	4304736233	14764	State	State	GW	P
DESERT SPRING ST 43-36-9-18	36	090S	180E	4304736241	14992	State	State	GW	P
DESERT SPRING ST 34-36-9-18	36	090S	180E	4304736242	14716	State	State	GW	P
FEDERAL 14-31-9-19	31	090S	190E	4304736271	15884	Federal	Federal	GW	P
FEDERAL 12-31-9-19	31	090S	190E	4304736336	15086	Federal	Federal	GW	P
FEDERAL 21-31-9-19	31	090S	190E	4304736368	15605	Federal	Federal	GW	P
FEDERAL 23-31-9-19	31	090S	190E	4304736442	15715	Federal	Federal	GW	P
SHEEP WASH FED 43-25-9-18	25	090S	180E	4304736600	14977	Federal	Federal	GW	P
FEDERAL 43-19-9-19	19	090S	190E	4304736719	15186	Federal	Federal	GW	P

From: Gasco Production Company
To: Badlands Production Company
Effective Date: 4/16/2015

SHEEP WASH FED 21-25-9-18	25	090S	180E	4304736727	15475	Federal	Federal	GW	P
FEDERAL 21-30-9-19	30	090S	190E	4304736739	15476	Federal	Federal	GW	P
SHEEP WASH FED 23-25-9-18	25	090S	180E	4304736740	15213	Federal	Federal	GW	P
FEDERAL 23-19-9-19	19	090S	190E	4304736771	15355	Federal	Federal	GW	P
SHEEP WASH FED 41-25-9-18	25	090S	180E	4304736772	15338	Federal	Federal	GW	P
FEDERAL 41-30-9-19	30	090S	190E	4304736817	15212	Federal	Federal	GW	P
LAMB TRUST 34-22-9-19	22	090S	190E	4304736913	15187	Fee	Fee	GW	P
LAMB TRUST 14-14-9-19	14	090S	190E	4304736916	17012	Fee	Fee	GW	P
DESERT SPRING ST 33-36-9-18	36	090S	180E	4304737115	15011	State	State	GW	P
FEDERAL 14-17-9-19	17	090S	190E	4304737116	16163	Federal	Federal	GW	P
FEDERAL 34-18-9-19	18	090S	190E	4304737117	16275	Federal	Federal	GW	P
UTELAND ST 41-2-10-18	2	100S	180E	4304737132	15087	State	State	GW	P
UTELAND ST 43-2-10-18	2	100S	180E	4304737338	15365	State	State	GW	P
FEDERAL 41-19-9-19	19	090S	190E	4304737611	16311	Federal	Federal	GW	P
FEDERAL 32-30-9-19	30	090S	190E	4304737612	16051	Federal	Federal	GW	P
FEDERAL 12-30-9-19	30	090S	190E	4304737613	16052	Federal	Federal	GW	P
FEDERAL 21-19-9-19	19	090S	190E	4304737621	16253	Federal	Federal	GW	P
FEDERAL 14-18-9-19	18	090S	190E	4304737622	16264	Federal	Federal	GW	P
FEDERAL 34-30-9-19	30	090S	190E	4304737630	16557	Federal	Federal	GW	P
DESERT SPRING FED 21-1-10-18	1	100S	180E	4304737631	15961	Federal	Federal	GW	P
FEDERAL 12-1-10-18	1	100S	180E	4304737646	16023	Federal	Federal	GW	P
SHEEP WASH FED 14-25-9-18	25	090S	180E	4304737647	16121	Federal	Federal	GW	P
UTELAND ST 21-2-10-18	2	100S	180E	4304737676	16254	State	State	GW	P
UTELAND ST 12-2-10-18	2	100S	180E	4304737677	15806	State	State	GW	P
UTELAND ST 34-2-10-18	2	100S	180E	4304738028	16868	State	State	GW	P
FEDERAL 14-19-9-19	19	090S	190E	4304738336	16467	Federal	Federal	GW	P
FEDERAL 34-19-9-19	19	090S	190E	4304738337	16119	Federal	Federal	GW	P
SHEEP WASH FED 41-26-9-18	26	090S	180E	4304738351	16884	Federal	Federal	GW	P
SHEEP WASH FED 32-25-9-18	25	090S	180E	4304738352	16349	Federal	Federal	GW	P
SHEEP WASH FED 34-25-9-18	25	090S	180E	4304738353	16210	Federal	Federal	GW	P
FEDERAL 12-19-9-19	19	090S	190E	4304738407	16236	Federal	Federal	GW	P
SHEEP WASH FED 23-26-9-18	26	090S	180E	4304738465	16558	Federal	Federal	GW	P
SHEEP WASH FED 12-25-9-18	25	090S	180E	4304738469	16449	Federal	Federal	GW	P
FEDERAL 23-18-9-19	18	090S	190E	4304738575	16312	Federal	Federal	GW	P
LAMB TRUST 34-22A-9-19	22	090S	190E	4304738673	15832	Fee	Fee	GW	P
UTELAND FED 42-11-10-18	11	100S	180E	4304738896	16792	Federal	Federal	GW	P
STATE 21-32B	32	090S	190E	4304739170	16309	State	State	GW	P
STATE 22-32A	32	090S	190E	4304739171	16308	State	State	GW	P
STATE 21-32A	32	090S	190E	4304739172	16310	State	State	GW	P
FEDERAL 11-19-9-19	19	090S	190E	4304739717	17054	Federal	Federal	GW	P
SHEEP WASH FED 31-25-9-18	25	090S	180E	4304739729	17241	Federal	Federal	GW	P
SHEEP WASH FED 11-25-9-18	25	090S	180E	4304739730	17266	Federal	Federal	GW	P
DESERT SPG FED 41-1-10-18	1	100S	180E	4304739773	17013	Federal	Federal	GW	P
FED 32-19X-9-19(RIGSKID)	19	090S	190E	4304740233	17014	Federal	Federal	GW	P
FEDERAL 23-30G-9-19	30	090S	190E	4304751280	18211	Federal	Federal	OW	P
FEDERAL 34-19G-9-19	19	090S	190E	4304751281	18210	Federal	Federal	OW	P
FEDERAL 442-30-9-19	30	090S	190E	4304752870	19647	Federal	Federal	GW	P
FEDERAL 333-30-9-19	30	090S	190E	4304752872	19648	Federal	Federal	GW	P
FEDERAL 423-30-9-19	30	090S	190E	4304753011	19649	Federal	Federal	GW	P
Desert Springs State 412-36-9-18	36	090S	180E	4304753324	19783	State	State	GW	P
Desert Springs State 424-36-9-18	36	090S	180E	4304753325	19783	State	State	GW	P
Desert Springs State 133-36-9-18	36	090S	180E	4304753326	19747	State	State	GW	P
Desert Spring State 142-36-9-18	36	090S	180E	4304753327	19747	State	State	GW	P
DESERT SPRINGS ST 422-36-9-18	36	090S	180E	4304753328	19783	State	State	GW	P
WILKIN RIDGE ST 31-32-10-17	32	100S	170E	4301332677	15144	State	State	GW	S
RBU 4-11D	11	100S	180E	4304730718	16269	Federal	Federal	OW	S

From: Gasco Production Company
To: Badlands Production Company
Effective Date: 4/16/2015

RBU 2-11D	11	100S	180E	4304730826	16270	Federal	Federal	OW	S
RBU 6-11D	11	100S	180E	4304731192	16271	Federal	Federal	OW	S
STATE 2-32B	32	090S	190E	4304732221	11371	State	State	GW	S
STATE 9-36A	36	090S	180E	4304732225	11364	State	State	GW	S
FEDERAL 13-30B	30	090S	190E	4304733581	13249	Federal	Federal	GW	S
STATE 13-36A	36	090S	180E	4304733598	17838	State	State	GW	S
FEDERAL 16-26A	26	090S	180E	4304733601	12928	Federal	Federal	GW	S
FEDERAL 31-29	29	090S	190E	4304733653	13077	Federal	Federal	GW	S
RBU 1-10D	10	100S	180E	4304734312	16265	Federal	Federal	OW	S
FEDERAL 13-18-9-19	18	090S	190E	4304739776	17149	Federal	Federal	GW	S

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-76482

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Desert Spring Fed 21-1-10-18

2. NAME OF OPERATOR: Gasco Production Company

9. API NUMBER: 4304737631

3. ADDRESS OF OPERATOR: 7979 E. Tufts Ave. CITY Denver STATE CO ZIP 80237

PHONE NUMBER: (303) 483-0044

10. FIELD AND POOL, OR WILDCAT: Uteland Butte

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 0633 FNL 1512 FWL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 1 10S 18E S

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 4/16/2015	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Gasco Production Company requests a change of operator on this well, in addition to the wells on the attached list from Gasco Production Company to Badlands Production Company, effective date of 4/16/2015.

Gasco Production Company
7979 E Tufts Ave, Suite 1150
Denver CO 80237
303-996-1805

Michael Decker, Exec. Vice President & COO

Badlands Production Company
7979 E Tufts Ave, Suite 1150
Denver CO 80237
303-996-1805

Michael Decker, Exec. Vice President & COO

RECEIVED
JUN 02 2015
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Lindsey Cooke TITLE Engineering Tech

SIGNATURE Lindsey Cooke DATE 5/18/2015

(This space for State use only)

APPROVED

JAN 22 2016

DIV. OIL GAS & MINING
BY: Rachel Medina

(5/2000) (See Instructions on Reverse Side)

Well Name	Section	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
FEDERAL 332-30-9-19	30	090S	190E	4304753012	19650	Federal	Federal	GW	DRL
WILKIN RIDGE FED 43-29-10-17	29	100S	170E	4301333098	15941	Federal	Federal	GW	OPS
LAMB TRUST 11-23-9-19	23	090S	190E	4304736915	16556	Fee	Fee	GW	OPS
SHEEP WASH FED 43-26-9-18	26	090S	180E	4304738573	17201	Federal	Federal	GW	OPS
FEDERAL 13-19-9-19	19	090S	190E	4304739777	18344	Federal	Federal	GW	OPS
FEDERAL 12-17-9-19	17	090S	190E	4304739800	17202	Federal	Federal	GW	OPS
GATE CYN 31-21-11-15	21	110S	150E	4301332391	13787	State	State	GW	P
WILKIN RIDGE ST 12-32-10-17	32	100S	170E	4301332447	14033	State	State	GW	P
GATE CYN 41-20-11-15	20	110S	150E	4301332475	14417	State	State	GW	P
WILKIN RIDGE FED 34-17-10-17	17	100S	170E	4301332560	14726	Federal	Federal	GW	P
GATE CYN 41-19-11-16	19	110S	160E	4301332611	14439	Federal	Federal	GW	P
WILKIN RIDGE ST 44-32-10-17	32	100S	170E	4301332619	15649	State	State	GW	P
WILKIN RIDGE FED 12-4-11-17	4	110S	170E	4301332674	15537	Federal	Federal	GW	P
WILKIN RIDGE ST 24-32-10-17	32	100S	170E	4301332676	15242	State	State	GW	P
WILKIN RIDGE FED 23-29-10-17	29	100S	170E	4301332679	14033	Federal	Federal	GW	P
GATE CYN ST 23-16-11-15	16	110S	150E	4301332685	16082	State	State	GW	P
WILKIN RIDGE ST 34-16-10-17	16	100S	170E	4301332730	15243	State	State	GW	P
WILKIN RIDGE FED 31-29-10-17	29	100S	170E	4301332773	15370	Federal	Federal	GW	P
WILKIN RIDGE 32-08	8	110S	170E	4301332778	14802	Federal	Federal	GW	P
GATE CYN ST 23-16-11-16	16	110S	160E	4301332888	15098	State	State	GW	P
WILKIN RIDGE FED 24-20-10-17	20	100S	170E	4301333081	15714	Federal	Federal	GW	P
WILKIN RIDGE FED 32-20-10-17	20	100S	170E	4301333087	15807	Federal	Federal	GW	P
WILKIN RIDGE FED 14-4-11-17	4	110S	170E	4301333099	15920	Federal	Federal	GW	P
RYE PATCH FED 22-21	22	110S	140E	4301333437	16919	Federal	Federal	GW	P
RYE PATCH FED 24-21	24	110S	140E	4301333443	16367	Federal	Federal	GW	P
RBU 5-11D	11	100S	180E	4304730409	9005	Federal	Federal	OW	P
FEDERAL 7-25A	25	090S	180E	4304730624	9030	Federal	Federal	OW	P
RBU 6-2D	2	100S	180E	4304731190	7075	State	State	OW	P
NGC 33-18J	18	090S	190E	4304731200	6155	Federal	Federal	OW	P
RBU 13-2D	2	100S	180E	4304731280	16267	State	State	OW	P
RBU 16-3D	3	100S	180E	4304731352	16268	Federal	Federal	OW	P
RBU 10-11D	11	100S	180E	4304731357	7053	Federal	Federal	OW	P
RBU 8-10D	10	100S	180E	4304731364	4955	Federal	Federal	OW	P
RBU 15-3D	3	100S	180E	4304731539	9965	Federal	Federal	OW	P
RBU 12-12D	12	100S	180E	4304731651	10688	Federal	Federal	OW	P
RBU 2-10D	10	100S	180E	4304731801	10784	Federal	Federal	OW	P
RBU 3-15D	15	100S	180E	4304733600	13213	Federal	Federal	OW	P
RBU 3-12D	12	100S	180E	4304733739	14492	Federal	Federal	OW	P
STATE 7-36A	36	090S	180E	4304733741	14244	State	State	GW	P
FEDERAL 34-29	29	090S	190E	4304733750	13174	Federal	Federal	GW	P
FEDERAL 24-7 #1	7	100S	180E	4304733983	13182	Federal	Federal	GW	P
FEDERAL 23-29 #1	29	090S	190E	4304734111	13441	Federal	Federal	GW	P
FED 24-20-9-19	20	090S	190E	4304734168	14150	Federal	Federal	GW	P
FED 44-20-9-19	20	090S	190E	4304734169	14140	Federal	Federal	GW	P
FED 23-21-9-19	21	090S	190E	4304734199	13601	Federal	Federal	GW	P
FED 32-31-9-19	31	090S	190E	4304734201	13641	Federal	Federal	GW	P
FED 42-29-9-19	29	090S	190E	4304734202	13455	Federal	Federal	GW	P
PETES WASH 23-12 #1	12	100S	170E	4304734286	13492	Federal	Federal	GW	P
STATE 4-32B	32	090S	190E	4304734314	14440	State	State	GW	P
FED 14-18-2 #1	18	100S	180E	4304734539	13491	Federal	Federal	GW	P
FED 43-24-3 #1	24	100S	170E	4304734551	13726	Federal	Federal	GW	P
LYTHAM FED 22-22-9-19	22	090S	190E	4304734607	13640	Federal	Federal	GW	P
FED 11-21-9-19	21	090S	190E	4304734608	14151	Federal	Federal	GW	P
FED 22-30-10-18	30	100S	180E	4304734924	14280	Federal	Federal	GW	P
FEDERAL 43-30-9-19	30	090S	190E	4304735343	14202	Federal	Federal	GW	P
FED 11-22-9-19	22	090S	190E	4304735404	14203	Federal	Federal	GW	P
FED 42-21-9-19	21	090S	190E	4304735405	14928	Federal	Federal	GW	P
STATE 24-16-9-19	16	090S	190E	4304735588	14418	State	Federal	GW	P

FEDERAL 31-21-9-19	21	090S	190E	4304735606	14441	Federal	Federal	GW	P
FEDERAL 12-29-9-19	29	090S	190E	4304735614	14442	Federal	Federal	GW	P
FEDERAL 24-31-9-19	31	090S	190E	4304735623	14640	Federal	Federal	GW	P
FEDERAL 41-31-9-19	31	090S	190E	4304735624	14419	Federal	Federal	GW	P
LAMB TRUST 24-22-9-19	22	090S	190E	4304735732	14496	Fee	Fee	GW	P
LAMB TRUST 24-14-9-19	14	090S	190E	4304735733	14519	Fee	Fee	GW	P
FEDERAL 11-22-10-18	22	100S	180E	4304735808	15592	Federal	Federal	GW	P
FEDERAL 21-6-10-19	6	100S	190E	4304735844	14356	Federal	Federal	GW	P
DESERT SPRING ST 41-36-9-18	36	090S	180E	4304735845	14639	State	State	GW	P
STATE 12-32-9-19	32	090S	190E	4304735995	14871	State	State	GW	P
FEDERAL 12-20-9-19	20	090S	190E	4304736093	14976	Federal	Federal	GW	P
FEDERAL 32-20-9-19	20	090S	190E	4304736094	16120	Federal	Federal	GW	P
FEDERAL 23-30-9-19	30	090S	190E	4304736095	14872	Federal	Federal	GW	P
SHEEP WASH FED 34-26-9-18	26	090S	180E	4304736113	15096	Federal	Federal	GW	P
DESERT SPRING ST 23-36-9-18	36	090S	180E	4304736219	14738	State	State	GW	P
DESERT SPRING ST 21-36-9-18	36	090S	180E	4304736220	14763	State	State	GW	P
DESERT SPRING ST 12-36-9-18	36	090S	180E	4304736233	14764	State	State	GW	P
DESERT SPRING ST 43-36-9-18	36	090S	180E	4304736241	14992	State	State	GW	P
DESERT SPRING ST 34-36-9-18	36	090S	180E	4304736242	14716	State	State	GW	P
FEDERAL 14-31-9-19	31	090S	190E	4304736271	15884	Federal	Federal	GW	P
FEDERAL 12-31-9-19	31	090S	190E	4304736336	15086	Federal	Federal	GW	P
FEDERAL 21-31-9-19	31	090S	190E	4304736368	15605	Federal	Federal	GW	P
FEDERAL 23-31-9-19	31	090S	190E	4304736442	15715	Federal	Federal	GW	P
SHEEP WASH FED 43-25-9-18	25	090S	180E	4304736600	14977	Federal	Federal	GW	P
FEDERAL 43-19-9-19	19	090S	190E	4304736719	15186	Federal	Federal	GW	P
SHEEP WASH FED 21-25-9-18	25	090S	180E	4304736727	15475	Federal	Federal	GW	P
FEDERAL 21-30-9-19	30	090S	190E	4304736739	15476	Federal	Federal	GW	P
SHEEP WASH FED 23-25-9-18	25	090S	180E	4304736740	15213	Federal	Federal	GW	P
FEDERAL 23-19-9-19	19	090S	190E	4304736771	15355	Federal	Federal	GW	P
SHEEP WASH FED 41-25-9-18	25	090S	180E	4304736772	15338	Federal	Federal	GW	P
FEDERAL 41-30-9-19	30	090S	190E	4304736817	15212	Federal	Federal	GW	P
LAMB TRUST 34-22-9-19	22	090S	190E	4304736913	15187	Fee	Fee	GW	P
LAMB TRUST 14-14-9-19	14	090S	190E	4304736916	17012	Fee	Fee	GW	P
DESERT SPRING ST 33-36-9-18	36	090S	180E	4304737115	15011	State	State	GW	P
FEDERAL 14-17-9-19	17	090S	190E	4304737116	16163	Federal	Federal	GW	P
FEDERAL 34-18-9-19	18	090S	190E	4304737117	16275	Federal	Federal	GW	P
UTELAND ST 41-2-10-18	2	100S	180E	4304737132	15087	State	State	GW	P
UTELAND ST 43-2-10-18	2	100S	180E	4304737338	15365	State	State	GW	P
FEDERAL 41-19-9-19	19	090S	190E	4304737611	16311	Federal	Federal	GW	P
FEDERAL 32-30-9-19	30	090S	190E	4304737612	16051	Federal	Federal	GW	P
FEDERAL 12-30-9-19	30	090S	190E	4304737613	16052	Federal	Federal	GW	P
FEDERAL 21-19-9-19	19	090S	190E	4304737621	16253	Federal	Federal	GW	P
FEDERAL 14-18-9-19	18	090S	190E	4304737622	16264	Federal	Federal	GW	P
FEDERAL 34-30-9-19	30	090S	190E	4304737630	16557	Federal	Federal	GW	P
DESERT SPRING FED 21-1-10-18	1	100S	180E	4304737631	15961	Federal	Federal	GW	P
FEDERAL 12-1-10-18	1	100S	180E	4304737646	16023	Federal	Federal	GW	P
SHEEP WASH FED 14-25-9-18	25	090S	180E	4304737647	16121	Federal	Federal	GW	P
UTELAND ST 21-2-10-18	2	100S	180E	4304737676	16254	State	State	GW	P
UTELAND ST 12-2-10-18	2	100S	180E	4304737677	15806	State	State	GW	P
UTELAND ST 34-2-10-18	2	100S	180E	4304738028	16868	State	State	GW	P
FEDERAL 14-19-9-19	19	090S	190E	4304738336	16467	Federal	Federal	GW	P
FEDERAL 34-19-9-19	19	090S	190E	4304738337	16119	Federal	Federal	GW	P
SHEEP WASH FED 41-26-9-18	26	090S	180E	4304738351	16884	Federal	Federal	GW	P
SHEEP WASH FED 32-25-9-18	25	090S	180E	4304738352	16349	Federal	Federal	GW	P
SHEEP WASH FED 34-25-9-18	25	090S	180E	4304738353	16210	Federal	Federal	GW	P
FEDERAL 12-19-9-19	19	090S	190E	4304738407	16236	Federal	Federal	GW	P
SHEEP WASH FED 23-26-9-18	26	090S	180E	4304738465	16558	Federal	Federal	GW	P
SHEEP WASH FED 12-25-9-18	25	090S	180E	4304738469	16449	Federal	Federal	GW	P
FEDERAL 23-18-9-19	18	090S	190E	4304738575	16312	Federal	Federal	GW	P

LAMB TRUST 34-22A-9-19	22	090S	190E	4304738673	15832	Fee	Fee	GW	P
UTELAND FED 42-11-10-18	11	100S	180E	4304738896	16792	Federal	Federal	GW	P
STATE 21-32B	32	090S	190E	4304739170	16309	State	State	GW	P
STATE 22-32A	32	090S	190E	4304739171	16308	State	State	GW	P
STATE 21-32A	32	090S	190E	4304739172	16310	State	State	GW	P
FEDERAL 11-19-9-19	19	090S	190E	4304739717	17054	Federal	Federal	GW	P
SHEEP WASH FED 31-25-9-18	25	090S	180E	4304739729	17241	Federal	Federal	GW	P
SHEEP WASH FED 11-25-9-18	25	090S	180E	4304739730	17266	Federal	Federal	GW	P
DESERT SPG FED 41-1-10-18	1	100S	180E	4304739773	17013	Federal	Federal	GW	P
FED 32-19X-9-19(RIGSKID)	19	090S	190E	4304740233	17014	Federal	Federal	GW	P
FEDERAL 23-30G-9-19	30	090S	190E	4304751280	18211	Federal	Federal	OW	P
FEDERAL 34-19G-9-19	19	090S	190E	4304751281	18210	Federal	Federal	OW	P
FEDERAL 442-30-9-19	30	090S	190E	4304752870	19647	Federal	Federal	GW	P
FEDERAL 333-30-9-19	30	090S	190E	4304752872	19648	Federal	Federal	GW	P
FEDERAL 423-30-9-19	30	090S	190E	4304753011	19649	Federal	Federal	GW	P
Desert Springs State 412-36-9-18	36	090S	180E	4304753324	19783	State	State	GW	P
Desert Springs State 424-36-9-18	36	090S	180E	4304753325	19783	State	State	GW	P
Desert Springs State 133-36-9-18	36	090S	180E	4304753326	19747	State	State	GW	P
Desert Spring State 142-36-9-18	36	090S	180E	4304753327	19747	State	State	GW	P
DESERT SPRINGS ST 422-36-9-18	36	090S	180E	4304753328	19783	State	State	GW	P
WILKIN RIDGE ST 31-32-10-17	32	100S	170E	4301332677	15144	State	State	GW	S
SQUAW CROSSING U 5	2	100S	180E	4304730129	16266	State	State	OW	S
RBU 4-11D	11	100S	180E	4304730718	16269	Federal	Federal	OW	S
RBU 2-11D	11	100S	180E	4304730826	16270	Federal	Federal	OW	S
RBU 6-11D	11	100S	180E	4304731192	16271	Federal	Federal	OW	S
STATE 2-32B	32	090S	190E	4304732221	11371	State	State	GW	S
STATE 9-36A	36	090S	180E	4304732225	11364	State	State	GW	S
FEDERAL 13-30B	30	090S	190E	4304733581	13249	Federal	Federal	GW	S
STATE 13-36A	36	090S	180E	4304733598	17838	State	State	GW	S
FEDERAL 16-26A	26	090S	180E	4304733601	12928	Federal	Federal	GW	S
FEDERAL 31-29	29	090S	190E	4304733653	13077	Federal	Federal	GW	S
RBU 1-10D	10	100S	180E	4304734312	16265	Federal	Federal	OW	S
FEDERAL 13-18-9-19	18	090S	190E	4304739776	17149	Federal	Federal	GW	S